Laundry

the magazine for the institutional laundry manager

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R. B. Tullos, Mis-
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increased his
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per cent in five
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to see how he
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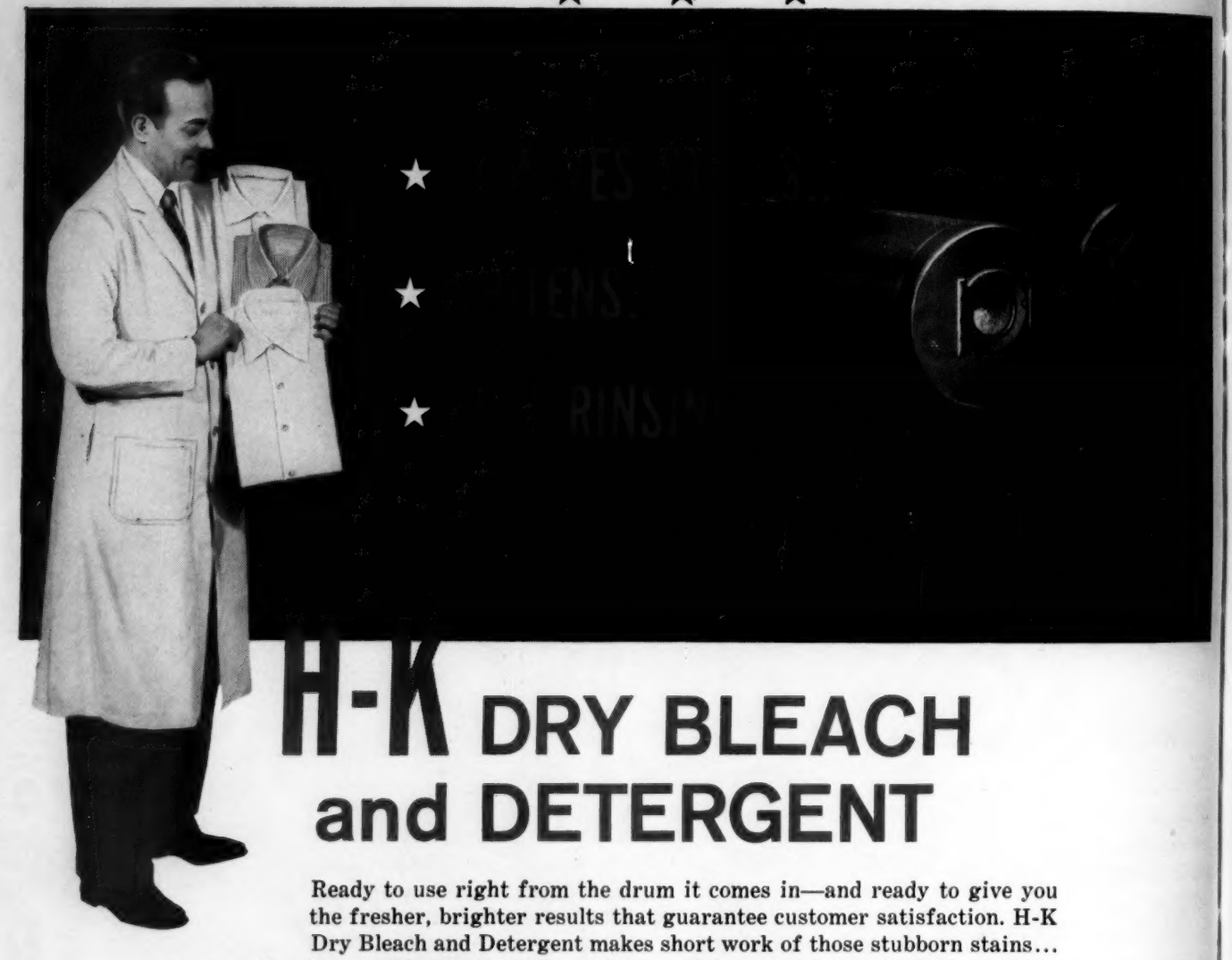
THE SINGLE PRODUCT WITH THE TRIPLE ACTION!

★ ★ ★



H-K DRY BLEACH and DETERGENT

Ready to use right from the drum it comes in—and ready to give you the fresher, brighter results that guarantee customer satisfaction. H-K Dry Bleach and Detergent makes short work of those stubborn stains... keeps white work really white...and its special soap-stripping action clarifies the linen and assists the rinsing process to assure fresh, clean, sweet-smelling work at all times! Now you can eliminate bleach tanks, carboys, jars—save valuable storage space. Just add H-K dry—it's easy to measure out, does away with sloppy buckets. And H-K's 3-way action is completely safe to fabrics, actually extends their life. Write today for full information and a free trial offer of triple-acting H-K Dry Bleach and Detergent!

Established 1851

H. Kohnstamm & Co., Inc.

NEW YORK 13, 161 Avenue of the Americas . . . CHICAGO 11, 11-13 E. Illinois St.
LOS ANGELES, (P. O. Address) 2632 E. 54 St., Huntington Park, Calif.

Foremost Manufacturer and Distributor of Quality Laundry and Cleaning Supplies

ALAMEDA • ALBANY • ALBUQUERQUE • ATLANTA • BALTIMORE • BOSTON • BUFFALO • CINCINNATI • CLEVELAND • COLORADO SPRINGS • DALLAS • DAYTON • DENVER
DETROIT • FARGO • GREENSBORO • HOUSTON • INDIANAPOLIS • JACKSONVILLE • KANSAS CITY, MO. • MEMPHIS • MINNEAPOLIS • NEW ORLEANS • OMAHA
PHILADELPHIA • ST. LOUIS • SAN ANTONIO • SEATTLE • TULSA

FACTORIES: BROOKLYN, N. Y. • CAMDEN, N. J. • CLEARING, ILL. • CHICAGO, ILL. • KEARNY, N. J. • NEWARK, N. J. • LOS ANGELES, CALIF.

Circle No. 16 on Post Card

Here's One Sure Way To CUT YOUR OPERATING COSTS *and at the same time—* Speed Up Flatwork Production

Handle More Sheets With Fewer Operators

With a SAGER SPREADER, one girl does the work of two or more hand shakers and does it easier and faster. With a SAGER "B", you can handle up to 3,000 sheets and spreads per day; above that quantity, you probably need a SAGER "A".

A SAGER SPREADER Quickly Pays For Itself

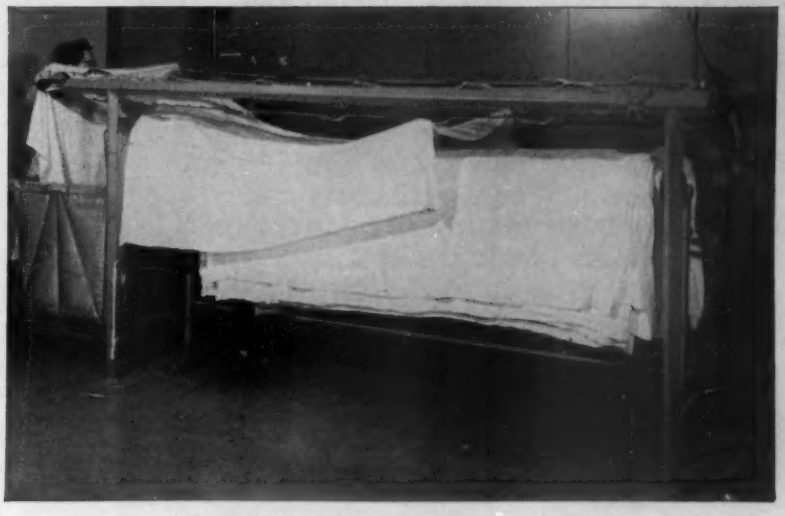
SAGER SPREADERS are not beyond your means. Like other institutional laundry managers who have installed them, you will quickly see that you cannot afford to be without a SAGER. There is nothing that takes its place in speeding up ironer production. It will quickly pay for itself in saving of labor and faster ironer production.

Reduces Labor Turnover

The SAGER helps solve your labor turnover problem because it turns a backbreaking, nerve wracking job into easy, pleasant work. SAGER operators like their jobs and stay on them. You know what this means to your social security accounting, as well as to general efficiency.

SAGER B SPREADER

SAGER A SPREADER



A SAGER "B" Spreader operates with one girl

SAGERS Are Solving Problems For Institutional Laundry Managers All Over The World

SAGER SPREADERS are performing miracles of increased production and reduced costs in laundries throughout the world. They cut labor costs; cut labor turnover; simplify hard hand labor jobs, and provide a smooth continuous flow of work to the ironers so that production is speeded up.

A Michigan Institutional Laundry Manager Says — " . . . At our wage level — $1.23 per hour, or $50.00 per operator each week, the savings will pay for spreader every 6 months."

A New Jersey Institutional Laundry Manager Says — "I have one of your SAGER "B" Spreaders almost a year now, and I find that it is the answer to a Laundry Manager's prayer. For production purposes it cannot be beat."

Write For Full Facts

If yours is a laundry handling 1,200 or more sheets and spreads per day, you can't afford to be without a SAGER Spreader in these times of high labor and tough competition. Write today for details and the names of progressive laundries all over the world which have reduced their flatwork ironing costs from 40% to 60% with these labor saving machines. But write us only if your sheet and spread production is 1,200 or more daily.

Please send us full facts about your labor-saving Sager Spreaders. **BECAUSE—**

M. A. Pocock
1228 Central Ave., N. E.
Minneapolis 13, Minnesota

★★★ WE IRON 1200 SHEETS AND SPREADS OR MORE EACH DAY ★★★

Firm .....

Street .....

City .....

State .....

Print your name .....

Circle No. 27 on Post Card

They SAW... They APPROVED... They BOUGHT... the

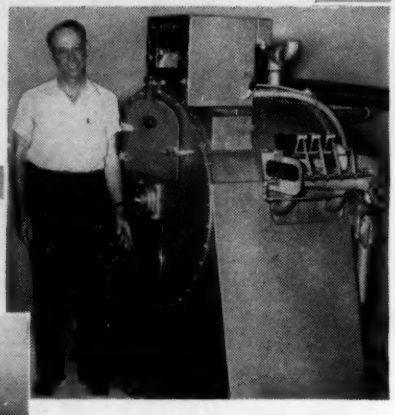
GLOVER

Fully Automatic Laundry WASHER-EXTRACTOR

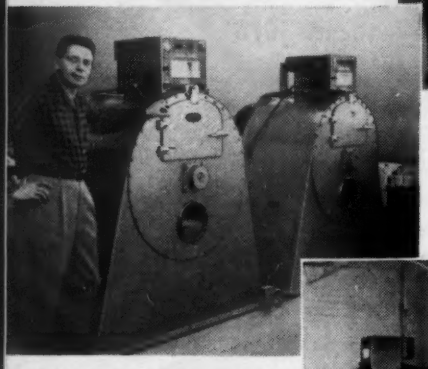
Here's why leading laundry operators like those on this page are going Glover. They found the new Glover Automatic Washer-Extractors, automatically...

CUTS LABOR 50% **CUTS WATER 50%**
CUTS SUPPLIES 50% **CUTS FUEL COSTS 30%**
CUTS FLOOR SPACE 66% **MAINTAINS QUALITY 100%**
INCREASES FABRIC LIFE 60%
PAYS FOR ITSELF IN 20 TO 36 MONTHS

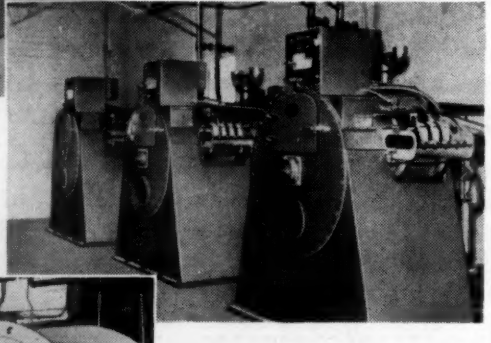
...and the Glover Can Do the Same For You!



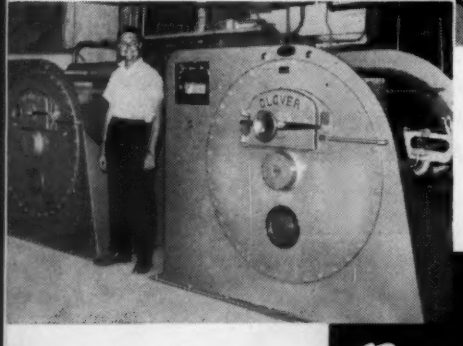
ELGIN NORRIS—Owner of Norris Laundry and Cleaners, Ruston, Louisiana. After using the 60 pound machine three weeks, Norris bought an additional 200 pound Glover Washer Extractor.



JOE TOFEL—Owner of WashWell, Tucson, Arizona, bought two 60 pound Glover machines. Reports labor saving alone of $6,240.00 annually. States "from a maintenance standpoint, they are an operator's dream".



GEORGE POWELL—Owner of Sunshine Laundry, Quincy, Florida, bought one 60 pound and two 100 pound Glover machines. Reports, "We average 500 pounds of wash an hour, quality excellent, clothes damage nil. I'm completely satisfied".



GEORGE KING — Owner of Acme Cleaners and Laundry, Fort Smith, Arkansas, bought two 200 pound Glover machines. Reduced labor 66% from three men to one man.

Get the Facts— and You'll Get Glover Too!
See Your Jobber or Write, Wire or Phone for Details!

Bill Glover®, Inc.
5204 Truman Road
Kansas City 27, Mo.

Institutional Laundry

the magazine for the institutional laundry manager

BI-MONTHLY VOLUME 3 • NUMBER 3

NAILM CONFERENCE

New Officers 53
Conference Highlights 58

DRY BLEACH — A GROWING TREND

Institutional laundries are turning towards powdered bleaches. This increased popularity is due in part to safety, handling conveniences and gentler bleaching 12

SMALL PLANT CUTS DOWN OPERATING BILLS

Community Hospital in Boulder, Colorado, replaced inadequate, worn out and out-dated equipment to save plant money on commercial laundry bills 15

HOW TO HIKE PRODUCTION 125 PER CENT

Continuous program of modernization has cut costs and stepped up production in R. B. Tullos' Mississippi State University laundry 18

MODERN LAUNDRY BUILT FOR FUTURE EXPANSION

The Norwalk (Conn.) Hospital boasts of a modern, efficient plant. Much of the credit goes to LM Dennis Viera and an enlightened Board of Trustees 22

YOUR LINEN BUYING GUIDE

Get the most for your money when you buy hospital garments and sheets 28

DUAL PLANT SERVES TWO "CUSTOMERS"

University of Michigan LM found his two-plant operation prevents hospital work from contaminating students' dormitory linen 32

WHY MANY LMs ARE TURNING TO VAT-DYED LINEN

Colored linens create a bright cheerful atmosphere. LMs are able to dye linen in the washwheel 36

HOW TO GEAR A HOSPITAL LAUNDRY FOR TOP PRODUCTION

California's Pacific State Hospital can produce 250,000 pounds per week 38

AUSSIES CAN DO 300,000 POUNDS WEEKLY

IL's exclusive interview of V. D. Bernard whose plant produces linen for 30 institutions 46

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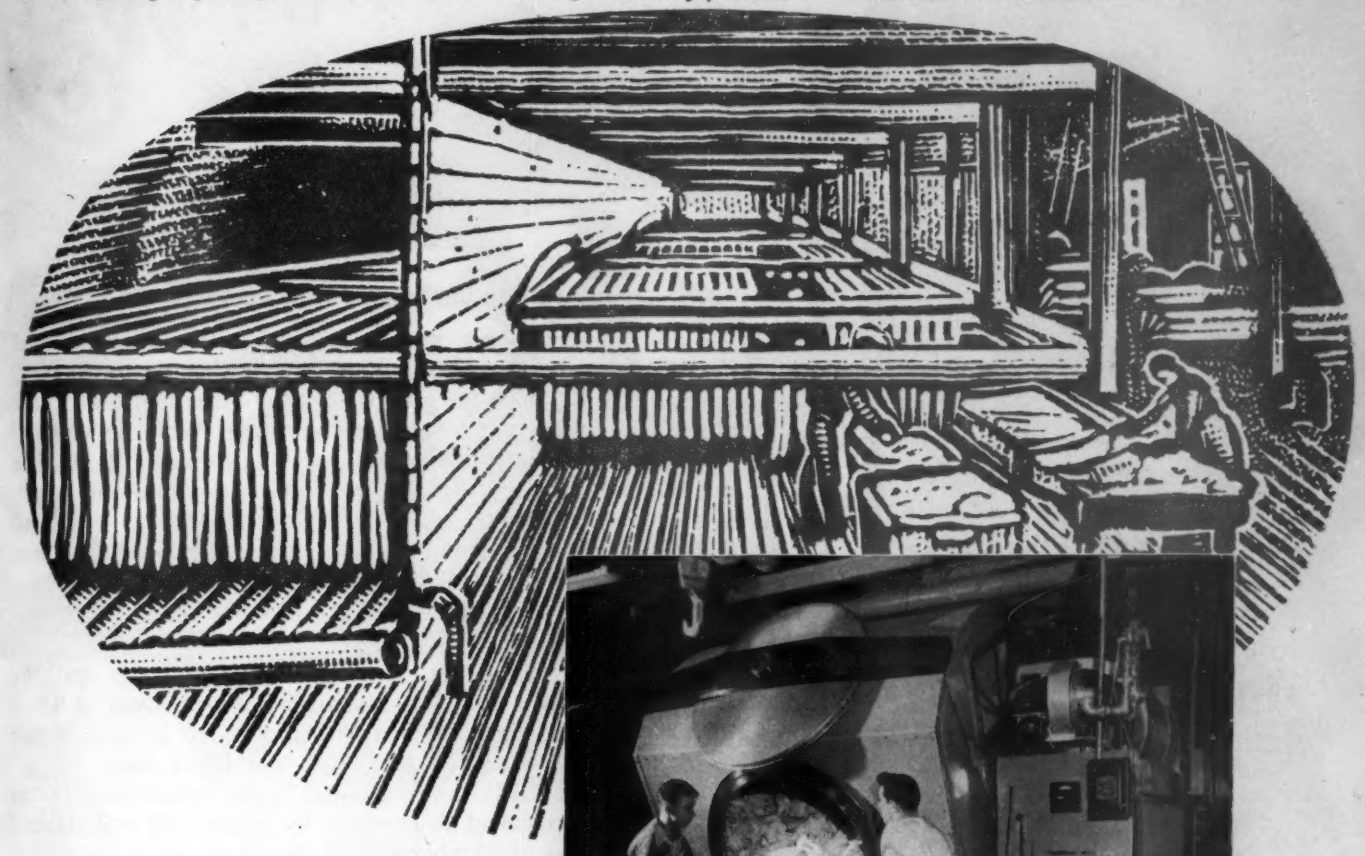
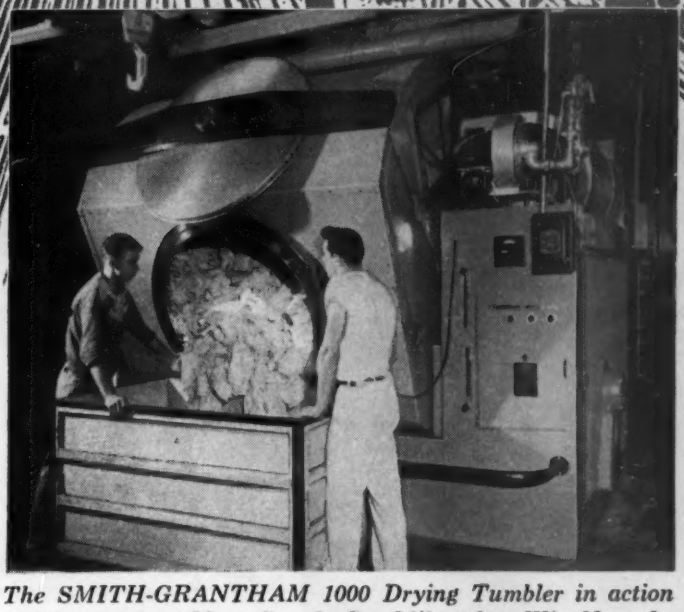
Those were the bad old days! (B. S-G)* ***Back in 1890 the drying was done by steam. In this view of a model laundry of that period the "hot box" at the left was heated by steam pipes running above and below wooden drying racks. The racks, tediously hung with flatwork on the outside, were pushed into the box through openings in the outer wall . . . a long and costly process.***

PRINT COURTESY OF AMERICAN INSTITUTE OF LAUNDERING





Today's modern laundry uses

The SMITH-GRANTHAM 1000 Drying Tumbler in action at the American Linen Supply Co., Milwaukee, Wis. Note the size of the load — 400 pounds dry weight in every load!

SMITH-GRANTHAM 1000 DRYING TUMBLERS

Fully dries 1000 lbs. (dry weight) or conditions 3000 lbs. an hour! Top-mounted gas burner saves 20 square feet of floor space over rear-mounted burners. The door slides up and over the tumbler . . . not over the operator's head. Basket tilts back 23° for fast, easy overhead loading. Dual-purpose, interrupting timer protects starched goods against scorching . . . saves up to 20% in fuel costs during complete drying cycle.

**Before Smith-Grantham!*

(All weights are based on 55% retention)

SMITH **THE T. L. SMITH COMPANY** | LAUNDRY DIVISION

Milwaukee 1, Wisconsin • Lufkin, Texas

A9-4082

Circle No. 33 on Post Card

institutional
Laundry

Are You Letting George Do It?

Just how important are your local and national institutional laundry managers associations? We have heard some of the dissatisfied soundly blast the groups. On the other hand, we know of others who just as passionately praise them. What do you do?

We believe that both sides have something to shout about. The damners find their targets in the "phantom" organizations, which consist of a small clique, a list of officers and some letterhead stationery. However, there is something to say even for these "phantom" groups. The cliques were allowed to form only because the rest of the membership was content to sit back and "let George do it."

When "George did it," but not to the liking of the apathetic group, what did they do? The dissatisfied stayed away. Cliques formed and the meetings degenerated into coffee klatches which were rarely of any value—even to those who like coffee.

The progressive LMs never allowed these "phantom" groups to evolve. They prevented absenteeism by conducting well-planned meetings. And, every member was in on the planning.

Prominent allied trades experts were invited to speak before the associations. These men and women often helped give the laundry managers a better understanding of the techniques needed to operate an efficient plant.

Praiseworthy LM

R. B. Tullos is the perfect example of a laundry manager who has won the respect of fellow LMs, his administrator, his employees and even the governor of his state. The energetic manager of the Mississippi State University (see page 18) has made his plant one of the showplaces of the nation.

This feat was not done with mirrors, nor by sitting back and letting the plant run itself. It took constant studies to find new ways to make the most of equipment, manpower and supplies.

INSTITUTIONAL LAUNDRY is proud to tell his story.

Len Fiddle

new 'concept' in press covers

RESINTEX "100"

by GIBRALTAR of course!
that outperforms, outlasts any other press cover made

ALL RESINTEX 100 PRESS COVERS are equipped with a new type draw cord that will last for the life of the cover.

★

RESINTEX 100 is available with SKIRTS or PUNCHED HOLES. Also available by the yard.

LONG LASTING — Guaranteed to last at least 12 weeks in actual operation.*

TOUGH — Stands up under any production schedule.

FLEXIBLE — Has plenty of resiliency and "give".

CONSTANT QUALITY — Due to quality control, possible because of finishing operations all done in our own plant.

ABRASION RESISTANT — Tough fibers made tougher by Gibraltar finishing.

FINELY WOVEN SURFACE — Gives your work a *plus*... smoother ironing.

GIBRALTAR FABRICS, INC.

254 — 36th Street, Brooklyn 32, N. Y.

Circle No. 43 on Post Card

*Our claims are based on actual, impartial tests by leading laundry and linen supply plants who were not told what to expect, but asked to report their own findings.

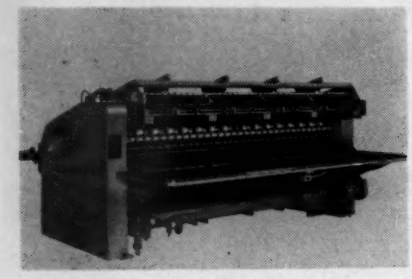
Sold Through Leading Distributors Everywhere

Products Parade

(Circle appropriate key numbers on readers Service Card for more information)

Folder-Stacker **Circle 70**

Folestak, a new folder-stacker unit introduced by *The American Laundry Machinery Co.*, is said to add versatility to the production of 110 and 120-inch flatwork ironers. Available in seven models with various combinations



of folding, stacking and by-passing lanes, the unit folds large and small pieces neatly and evenly even at highest ironing speeds, the company says. All three operations of folding, stacking and by-passing can be carried on simultaneously or singly.

Finishing Agent **Circle 71**

Velva-Soft-G, *Armour and Co.'s* newest textile finishing agent, has anti-bacterial properties and is said to impart a soft, non-irritating finish to all fabrics. It also makes fabrics free of static for better feeding through the flatwork ironer. Velva-Soft-G is added to the sour bath.

Wash Additive **Circle 72**

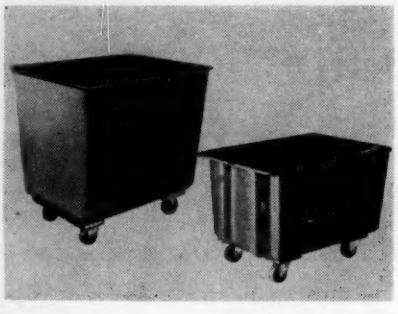
An updated product data sheet on the *Hercules Powder Co.* CMC-CT (sodium carboxymethylcellulose) is available from the company. CMC-CT is an efficient, economical soil-suspending additive to detergents and built soaps, the company says. It has been used as a finishing aid in starch work, as a soap-tank additive and in the final sour or blue operation.

Nylon Flannel **Circle 73**

Resinfleece, a new 100 per cent nylon flannel that has built-in resiliency, has been developed by *Gibralter Fabrics, Inc.* The fabric is heat-resistant and is made in two weights, 30 and 50-ounce. Guaranteed to last for six months, the fabrics have been used for Resinfelt press pads. The pads are equipped with heat reflectant liners and wire tie cords.

Laundry Trucks **Circle 74**

One-piece fiberglass laundry trucks have smooth snag-free interiors. Manufactured by the *Container Development Corp.*, the trucks are available in regular



and Stack-n-Nest models. Regular model is available in two sizes and one color, gray. The Stack-n-Nest model is also made in two sizes, but in three molded-in colors; red, green and gray. Both models have four wheels.

Net Markers **Circle 75**

New Perma net markers, in eight brilliant colors, are designed for easy handling, says *The Speare Co.* The markers spin on the net pin and will not wear or tear out.

Heat Reclaimers **Circle 76**

A waste water heat reclaiming unit has been introduced by the *Henszey Co.* The unit, which is suspended above the floor, offers a full manual or automatic back flushing arrangement. It is said to reduce fuel consumption up to 35 per cent and lower boiler loads up to 34 per cent.

Press Pad **Circle 77**

New, long-wearing press pad, made from Du Pont type 109 heat-resistant nylon, has been developed by *Whitehouse Products.* The pad, N-11, is said to be very resilient.

Table Linen **Circle 78**

Unlimited selection of solid colored table linen in any size and quantity is available from *Art Textile Corp.* The linens are made of Momie cloth, a high-thread count, mercerized all-cotton fabric. All linens have the Certified Washable Seal of the American Institute of Laundering.

Anti-Static Agent **Circle 79**

Opta Stat type TW, added to the rinse cycle, will make nylon static-free, says the manufacturer, *Optics Mfg. Corp.* The textile finishing agent also imparts a hand to the fabric.

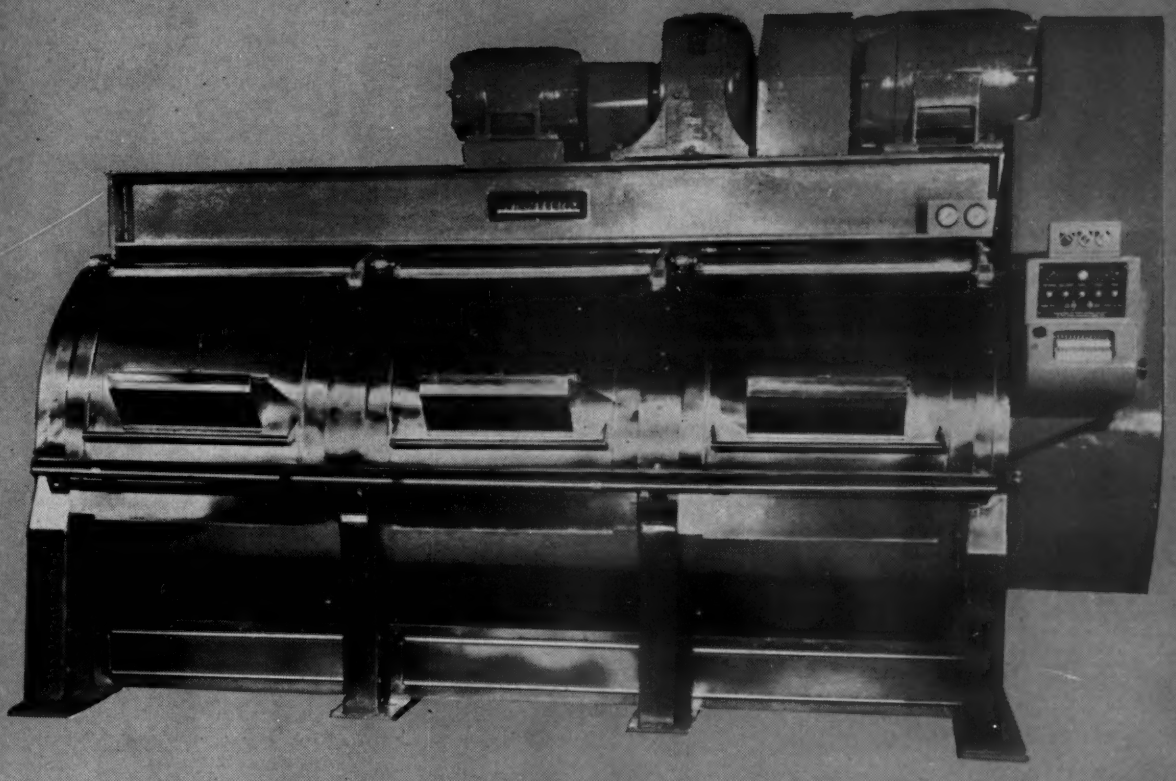
Net Fasteners **Circle 80**

Laundry nets fastened with Velcro, a tape closure made of Du Pont nylon, has been intro-

duced by *Fablok Mills, Inc.* Two strips of one-inch Velcro, five inches long, fasten around the

NEW *600 lb. laundry* **WASHEX** *for*

BIG LOAD CAPACITIES



A washer-extractor for the larger plants to cut washroom costs 50%

- **1200 pounds per operator hour!**
- **20% hot water savings!**
- **40% floor space savings!**
- **Shortest wash cycle without loss in quality of work!**
- **No more sloppy washroom ··· floors stay dry and neat!**
- **Pullman partitioned cylinder with large doors— the easiest machine to load and unload!**
- **High extraction efficiency!**
- **600 lb. loads— 4 or 6 pocket cylinders!**

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4309

Circle No. 41 on Post Card

SHAMROCK reliability and long wear are known the world over.....

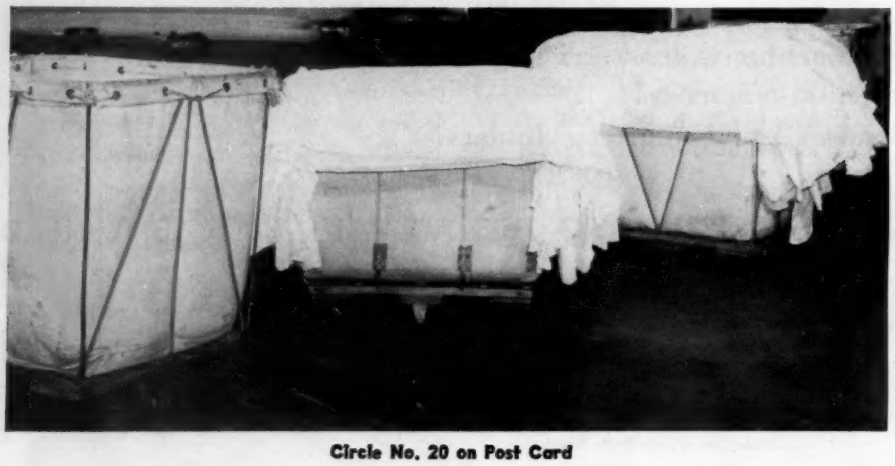
For over thirty years Meese craftsmen have insisted on *top quality* in Shamrock Canvas Baskets, Hampers, Trucks. In every Shamrock, you're assured of quality features that mean longer years of wear, extra economy. That's why you find Shamrocks in use the world over . . . paying for themselves in work-savings, time-savings! Ask your Shamrock jobber!

Top: Shamrock No. 19F Flat-Work Ironer Trucks in use at a large metropolitan laundry.

Below: Shamrock No. 22N Extractor Trucks and No. 19 Trucks are used here for shake-out work beside flat-work ironers, and for general utility.

Made by MEESE, INC., Office & Plant, Madison, Ind.

SALES OFFICES: NEW YORK—F. R. Tyroler, 55 West 42nd St., PE 6-0615; ATLANTA—W. E. Petway, 723 East Densley Dr., North Decatur, Ga., MElrose 6-3192; FORT WORTH—V. M. Hooton, 4220 Normandy Road, JEfferson 6-6564; WEST COAST—Gene Daniels Sales Co., P. O. Box 846, LaPuente, Calif., EDgewood 3-2116. Export Mgr.—R. A. Auerbach, Easton, Pa., Cable Address: "Natly."

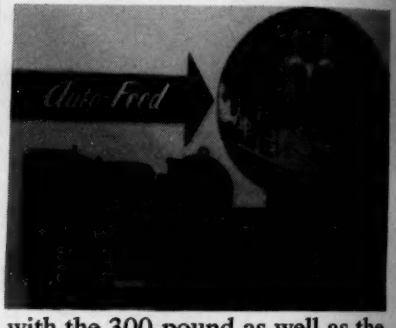


Circle No. 20 on Post Card

neck of the nets, providing an adjustable, washable, durable closure. The tapes have full holding power after 32,000 opening-closing cycles and laundering, the company finds.

Injection System **Circle 81**

The Dyna Wash Corp. has equipped its 120-pound combo units with Auto-Feed, a new supply injection system. Optional



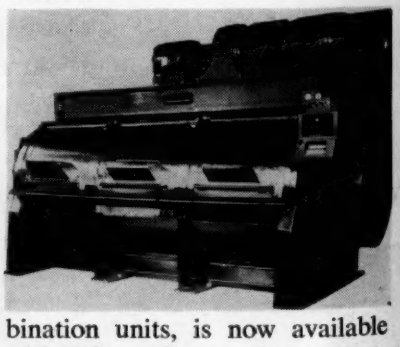
with the 300-pound as well as the 120-pound units, Auto-Feed assures trouble-free, automatic dispensing of supplies, says the maker. It has no moving parts.

Vat Dyes **Circle 82**

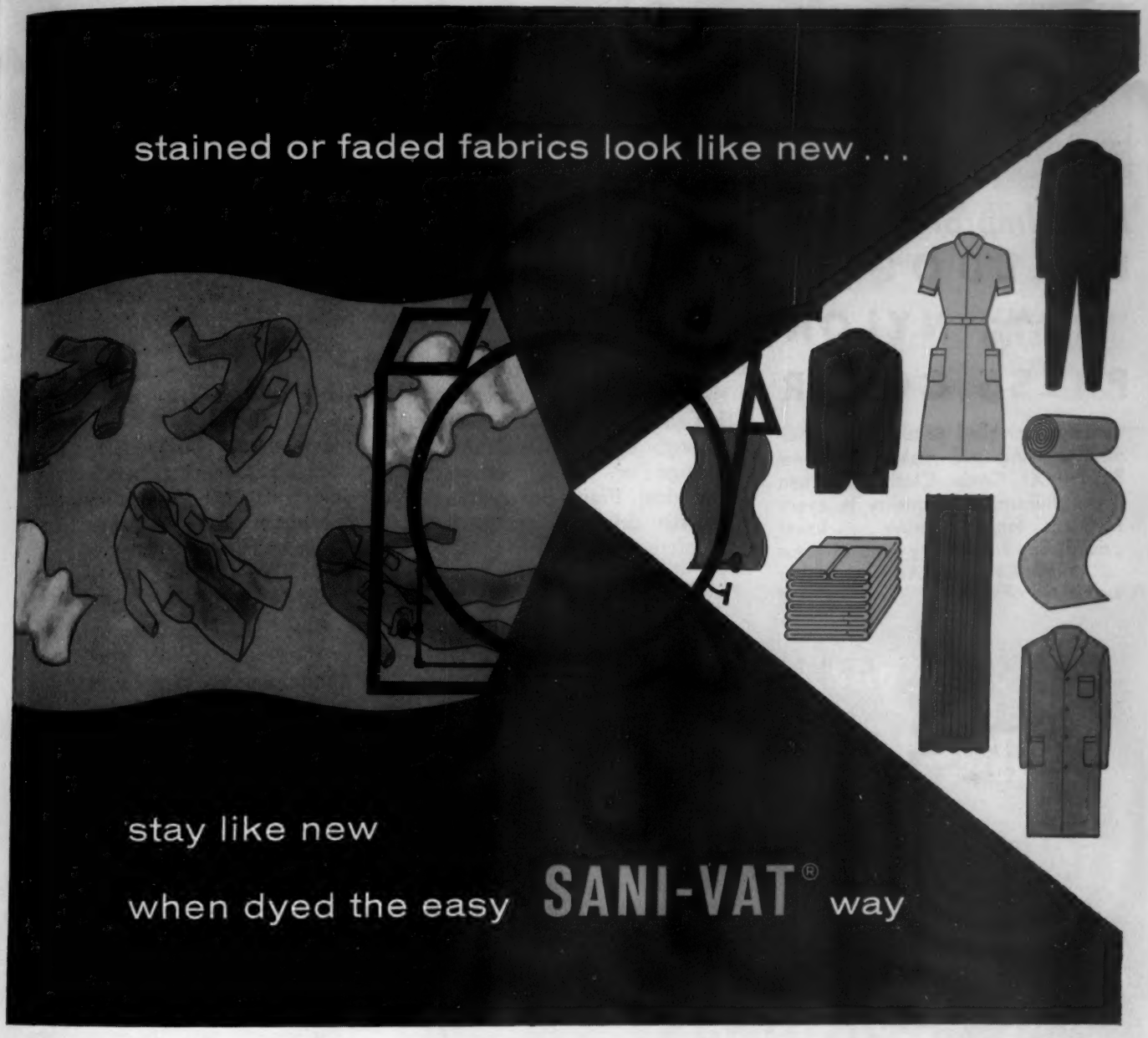
Consistently even dyeing can be done in standard laundry equipment with Sani-Vat. It is quick and easy to use and low in cost, says the manufacturer, *Koppers Co., Inc.* Ideal for the institutional laundry, the dye gives a bright, attractive new look to linens, uniforms, work clothes, rugs and drapes. Its dispersion properties allow instant and streakless penetration of dye into fabrics. Available in a wide range of lasting colors.

Giant Combo Unit **Circle 83**

New 600-pound washer-extractor, the largest of the *Washex Machinery Corp.* line of com-



bination units, is now available with either a four or six compartment pullman-type cylinder. □



For hospitals, hotels, motels, linen supply houses, restaurants, air lines, pullmans and ships

You can use it in your own laundry equipment . . . quick, easy and low in cost

Bright, attractive new look—Linens, uniforms, work clothes, drapes, rugs—stained, faded or otherwise unserviceable—acquire an entirely new appearance when dyed the SANI-VAT way. This economical vat dye system extends the useful life of your fabrics. It can be used not only for its decorative effects, but also for color-coding.

Excellent fastness—During the dyeing cycle, the SANI-VAT pigment is locked within the fibers . . . resulting in extreme fastness to washing, sun light, bleaching, dry cleaning and hot pressing.

Consistently even dyeing—SANI-VAT's superior dispersion properties allow instant and streakless penetration of dye into fabrics . . . producing consistently uniform coloring.

Easy-to-use—Anyone using your laundry equipment can easily follow the simple instructions included in the conveniently packaged SANI-VAT Kit . . . and do a quality job.

Wide range of colors—SANI-VAT Dyes are readily available in a wide range of lasting colors—dark shades to pastels.

Write for this free booklet on low-cost, easy-to-use SANI-VAT Dyes. Just fill in and mail coupon today!

☐ Please send a copy of the free SANI-VAT Dye Booklet.

☐ Please have a sales representative call on me.

Name_____

Business or Institution_____

Street_____

City_____ Zone____ State_____

Mail to: Chemicals and Dyestuffs Division, Koppers Company, Inc., Koppers Building, Pittsburgh 19, Pennsylvania.

KOPPERS COMPANY, INC.

Chemicals and Dyestuffs Division • Pittsburgh 19, Pa.

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New, Improved
BULLDOG XI
ALL SPUN **NYLON**
PRESS COVER

Quality controlled production in our own weaving mill makes this New Bulldog XI Cover Cloth finer than ever. Uniform high quality in every yard . . . longer wearing . . . lower priced. Sized for every type of press . . . in rolls 54" wide. Ask your jobber today . . . or write us for samples and prices.

•

ASBESTEX PRESS COVERS

•

MONEL-TEX
BASE PADS for all make CABINET BOSOMS and SLEEVE PRESSES

•

FLAN-L-TEX
METAL PRESS PADS

•

MET-L-FLAN
ALL MESH TOP PADS

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TWIN-FAB
FOR INDUSTRIAL GARMENT FINISHING OR AS BASE PAD

•

TUFF-FAB
ALL STEEL WOOL FOR ECONOMY

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KOMBI
ALL IN ONE UNIT • SPONGE RUBBER DRY CLEANING PRESS PAD

•

CLEANING MITT
ALSO CLEANING PADS FOR FLATWORK IRONERS

X. S. SMITH INC.
RED BANK · NEW JERSEY

Circle No. 34 on Post Card

Coast to Coast

Illinois LMs Meet

J. A. Weidemeyer of the American Hospital Association was the featured speaker at the Institutional Laundry Managers Association of Illinois. Weidemeyer spoke about linen control. The Illinois group, which meets on the second Friday of each month, has a policy of advancement through education and the exchange of ideas. Association president, Frank Bayer, was one of the delegates to the Tulsa Conference.

New Association

Institutional laundry managers on Vancouver Island on the Canadian Pacific coast, recently held their inaugural meeting at Nanaimo, B.C. The group, whose president is William Haslam, LM, Royal Jubilee Hospital, Victoria, B.C., Canada, will meet on the first Wednesday of each month. The new association, formally named the Vancouver Island Institutional Laundry Managers Association, was of the opinion that hospital administrators should be admitted as members of the association. In this way, the Canadian group said, the administrator would be better able to understand what problems are involved in operating a good institutional laundry.

Sal Muriella Dead

Sal Muriella, a representative of John T. Stanley Co., Inc. died early this year. Muriella was a friend to many LMs in the Metropolitan New York area.

New England Meeting

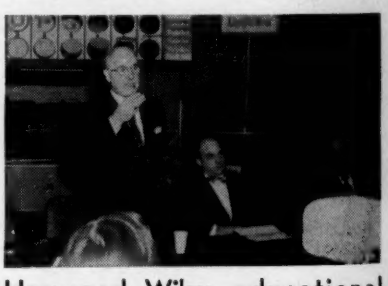
Dennis Viera, Supervisor of Services of Norwalk (Conn.) Hospital, hosted the regular monthly meeting of the Institutional Laundry Managers Association of Connecticut and Western Massachusetts. The entire membership discussed all phases of a laundry's operation. The group will hold its annual banquet meeting on May 19 at the Hawthorne Inn in Berlin, Conn.

Delegates Get Orders

Ben R. Hill, secretary of the Institutional Laundry Managers' Association of Southern California, reports his group met recently to discuss the amendments and resolutions acted upon at the NAILM Conference. The discussions enabled the Southern California delegate to find out the wishes of the So-Cal association members.

New Jersey Combo Meeting

The Institute on Physical Plant of the New Jersey Hospital Association and the North Jersey Institutional Laundry Managers Association held a joint meeting in Princeton, N. J. recently. The



Heywood Wiley, educational chairman, urges LMs to advance with the new techniques

LMs heard NAILM's Heywood M. Wiley tell of the increasing role automatic machinery plays in up-to-date plants. He said the caliber of workers and the LM has to be improved along with the technological advances. The Laundry Managers session was presided over by Lyle S. Hartford, Administrator of the Newton (N.J.) Memorial Hospital. Henry Thoms, LM of Irvington (N.J.) General Hospital, coordinated the LM meeting.

LMs Take Trip

A trip to the American Institute of Laundering plant in Joliet, Ill. was made by the members of the Southern Michigan Association of Institutional Laun-

continued on page 51

Letters to the editor

Minnesota Likes March

Thanks for the write-up in the March issue's Coast to Coast section. We think you are doing a bang-up job in giving the institutional men something that has long been needed.

Sometime in the future I'd like to see a series of what the average guy is doing. It might prove very interesting. There are a lot of LM's in small laundries that can't adapt the procedures of the "hot-shots." Believe me, these little outfits have their problems and also some good ideas.

Gale H. Wells
Secretary-treasurer
Minnesota Association of Institutional Laundry Managers

We appreciate your plaudits and advice. We believe the story of the Community Hospital in Denver, in this issue, is a step in the right direction.

Questions Column Requested

A few years ago, in the now defunct *Laundry Manager's* magazine, a question and answer column was published. It was called, "What Do You Know About That?" I think it would be a very good idea if you printed this column in INSTITUTIONAL LAUNDRY.

This column was very useful to many LM's.

Adolph Reder
Laundry Foreman
Rikers Island Penitentiary
New York, N. Y.

All questions are turned over for reply by IL's consulting editor, Fritz Field. In addition those questions that have universal appeal are included as part of the Field Report, our question and answer section.

We're a Textbook

Our office is responsible for and concerned with problems of environmental health and safety of the total university campus. One of the major units of the operation here is a large institutional laundry. We also use this laundry for teaching purposes for hospital administrators and other people in the field of public health.

We desire, therefore, to stay abreast of latest changes, techniques and operations in the institutional laundry field. We often have occasion to refer to your magazine.

Lee D. Stauffer
Senior Sanitarian and
Assistant Professor
University of Minn.

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DRY BLEACH

a growing trend

The use of powdered bleaches has become more widespread in institutional laundries in recent years. This increased popularity is due in part to the handling conveniences and safety from spillage and breakage, in part to prolonged linen life as a result of gentler controlled bleaching

During past years in the laundry industry, liquid bleaches in one form or another have been universally accepted as part of washing procedure.

Sodium hypochlorite liquid bleach made from caustic soda and chlorine is quite likely more widely accepted by more laundry owners than any other type. The standard procedure in most plants is simply pouring a five-gallon carboy of the commercial 12 to 15 per cent sodium hypochlorite bleach into a container and adding water to make the well-known one per cent bleach.

The other common type of liquid bleach is called one per cent soft bleach. It is made by mixing 3¾ pounds of powdered calcium hypochlorite with three pounds of soda ash or six pounds of modified soda in 30 gallons of water. Mixing the calcium hypochlorite and ash or soda in water produces sodium hypochlorite liquid bleach plus an insoluble precipitate of calcium carbonate. This calcium carbonate is not only useless after formation but must be allowed to settle to the bottom of the bleach crock before the soft bleach liquid can be used. And during subsequent use, the washman must avoid stirring up the sediment because if introduced into the washer the calcium salt will suppress the foaming and washing power of the wash solutions.

Standard procedure

Common practice with all liquid bleaches was the placing of garments into the bleach crock for stain and mildew removal. Sometimes these articles were soaked longer than intended, with consequent high loss of tensile strength.

Another common practice was the washman's use of an additional dipper of liquid bleach. This always aggravated tensile strength loss and sometimes led to cases of bleaching white rather than washing white.

These factors all pointed to the need of a control over the very important bleach operation of the washing procedure, and powered bleaches which could be added directly to the wheel began making their appearance on the market.

The first powered bleaches were based on calcium hypochlorite and had to be used in one of the rinse operations in order to avoid precipitation of lime soap. Obviously, this unfavorable precipitation would have occurred if the calcium bleach had been introduced into the conventional bleach operation of the wash formula. A great shortcoming with these bleaches was pinholing of fabric because of high, local concentrations of bleach where granules of undissolved calcium hypochlorite contacted the work.

This damage to the fabric was

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and fresh
as a breeze
...and as easy, too

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ULTRA-BLUE
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ULTRA-LITE®
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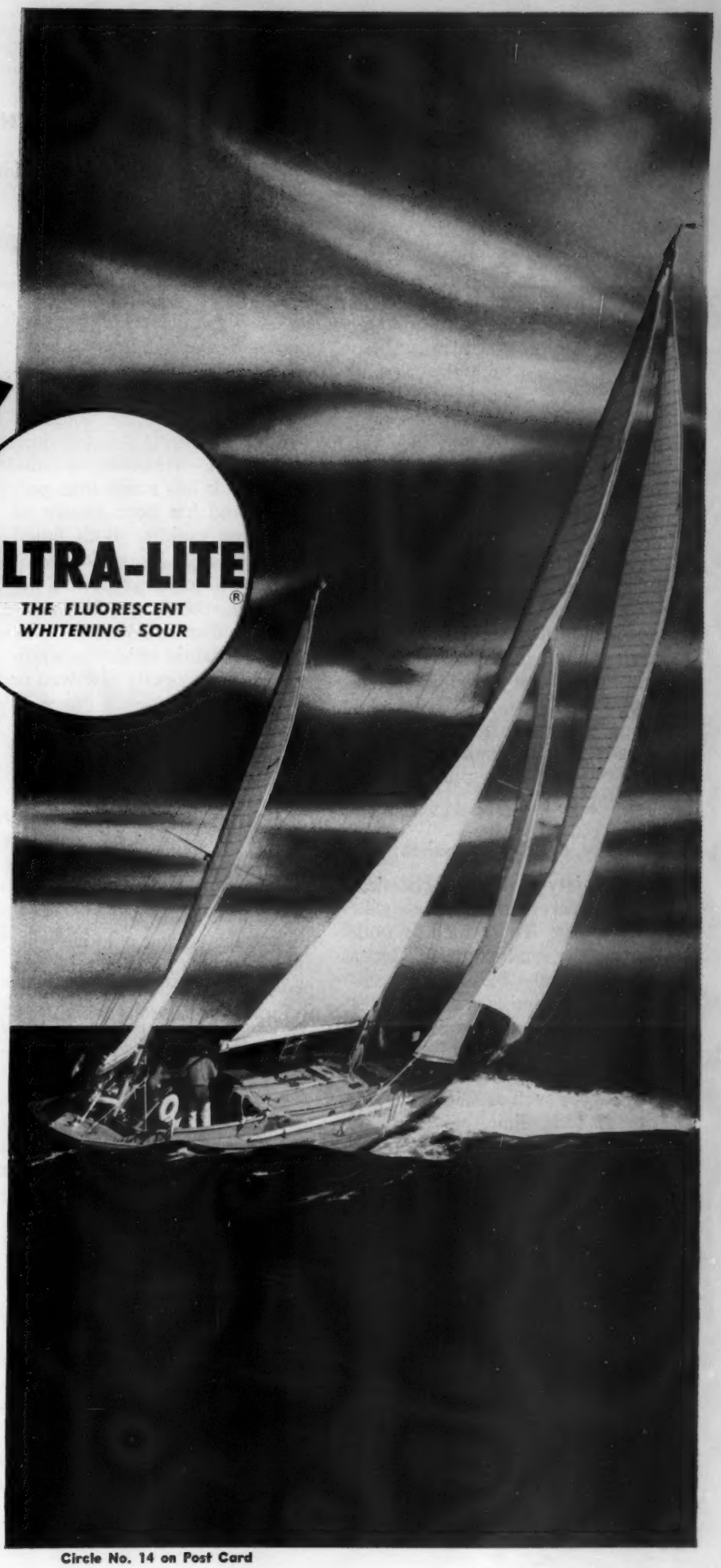

Both of these Keestar Sours make white ultra-white, make colors ultra-bright. Both contain anti-chlors that remove residual chlorine.

Ultra-Lite and Ultra-Blue are equally high in solubility, neutralizing action and in preventing streaking and spotting.

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TYPES OF DRY LAUNDRY BLEACHES

Organic	Inorganic	
Chlorine type	Chlorine type	Oxygen type
Chlorinated cyanuric acids Chlorinated hydantoins	Calcium hypochlorite	Sodium perborate Hydrogen peroxide

partially overcome by reformulation of the powdered bleaches, reducing considerably the calcium hypochlorite content while also adding a large amount of polyphosphate. This change in composition also permitted use of the products in the regular bleach operation of the wash formula.

In recent years powdered bleaches have made large gains in the laundry bleach market. The increased popularity of the powdered bleaches has in part been due to handling convenience and safety from container breakage and spillage, as well as prolonged linen life as a result of lower tensile strength loss due to controlled bleaching and better washing.

Variety of dry bleaches

A variety of different chemical types of dry bleaches are available today. These include both "inorganic" and "organic" types of chemical bleaching compounds. Chemists make the distinction between organic and inorganic on the basis of chemical composition. Inorganic refers to substances such as salt, soda ash, caustic soda, lime, etc. Organic refers to compounds containing carbon, such as soaps, alcohols, various solvents, paper, wood etc. The organic bleaches are thus composed of carbon and chlorine; actually they also contain nitrogen, hydrogen and oxygen with all these elements being in chemical combination as contrasted to a mechanical mixture of materials.

The perborates and peroxides have an advantage over hypochlorites of being useable on silks, woolens and rayons, but they are less effective in bleaching cottons, which make up the bulk of laundered fabrics. Peroxides are often used for chlorine - retentive fabrics. A dry bleach which is effective on cotton is sodium hypochlorite. However, the latter bleach is less stable than perborates and has been known to decompose rapidly. Both liquid and powdered inorganic hypochlorites will damage fabric if accidentally spilled, and the powdered product will cause "pinholing" of fabric inside the washwheel if not properly dissolved or dispersed in the bleach liquor.

A few years ago the organic chlorinated hydantoin products were introduced to the market. More recently, chlorinated cyanuric acids (an organic type) have become available, and probably account for the majority of the organic chlorine types of dry bleach used today.

Both the organic chlorine types and inorganic hypochlorite depend upon a reaction with water to form hypochlorous acid to produce a bleaching action. The hypochlorous acid, or a modified form of it, actually does the bleaching of stains. With the inorganic hypochlorites the formation of hypochlorous acid is generally considered instantaneous and very near complete. With the organic chlorine types the rate of formation of hypochlorous acid appears to be somewhat slower generally. This allows the hypochlorous acid to be evenly distributed throughout the wash water before harmful concentrations can be built up at any one spot. Thus with the organic materials there is never a high concentration of hypochlorite available at any one place to degrade the cellulose fibers to oxycellulose. Formation of the latter causes tendering of the fabric, tensile strength loss, etc.

In addition the organic types do not contain free alkali. Compared to calcium hypochlorite, the organic bleaches dissolve much more rapidly, thus elimi-

continued on page 43

Ease of handling and top washing results have made the dry bleaches popular in many institutional plants.

How a small plant cut down its operating bills

Inadequate, worn out and outdated laundry equipment can take a healthy bite out of the revenue of a small hospital, says David G. Hutchison, superintendent of the Community Hospital in Boulder, Colorado. And Hutchison should know, for not so long ago Community Hospital was plagued with such outmoded equipment.

The laundry had a small washer with a capacity of only 40 sheets per load. Another bottleneck was the 40 pound extractor, too small for its job. The plant was further hampered with a one horsepower ironer, capable of handling only about 40 sheets an hour. Production was also kept to a minimum by a small tumbler-dryer.

The situation was so bad that the hospital was paying out hundreds of dollars a year to commercial laundries to process part of its soiled linen.

The only cure that proved effective was a complete modernization of the plant. The spacious laundry room was stripped of all the old equipment and replaced with new and modern units. This new equipment enables the laundry to produce more clean linen at a tremendous savings of time and money.

"It's difficult to estimate exactly how much the savings amount to," says Mrs. Margaret Everson, laundry supervisor. "In addition to the fact that we don't have to send any laundry to commercial plants now, we find that sheets, for example, last about three times longer when we wash and iron them with the new equipment as when we sent them out."

In 1957 the hospital paid commercial plants $205.94 in August, $145.32 in September and $267 in October. "We haven't sent a thing to commercial laundries since the new equipment was installed," Mrs. Everson says.

The new, up-to-date equipment consists of a 100 pound washer - extractor, a 110 - inch steam operated flatwork ironer and a 36x30 four-coil tumbler-dryer, capable of handling 40-

New flatwork ironer handles one sheet a minute. The old unit handled 40 sheets an hour.

Stripped of out-dated equipment and modernized, plant saves hospital hundreds of dollars a year on commercial laundry bills

pound loads without straining.

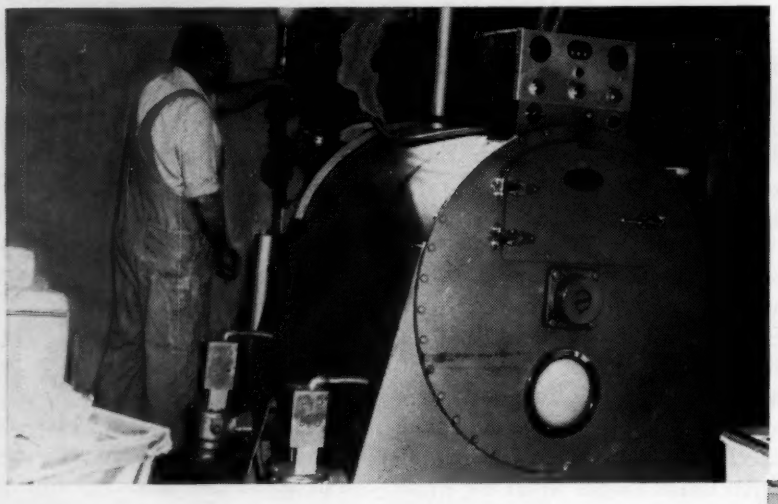
Savings on soap and materials of every kind have been the result of the new units. According to washman George Nelson, the new washer-extractor requires as little soap for its 100-pound load as the old unit needed for a 40-pound load. Where the old unit could only handle 40 sheets per load, the new one washes and extracts 100 sheets a cycle.

The laundry now produces about 33,000 pounds of linen a month. It does this without any outside help and in a shortened working day. The plant is now operated eight hours a day and has six employees. With the old equipment, the working day was longer, a man had to come in nights and an additional worker was put on in the afternoons. And, commercial laundries had to take part of the load.

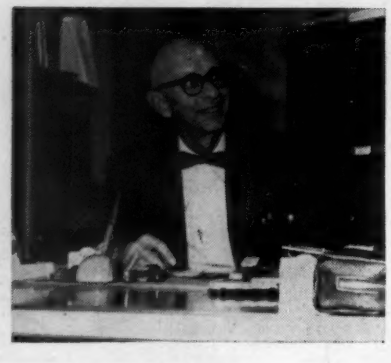
In addition to the dollar savings, an increase in production and a savings in time, the quality of the work produced is better. The old dryer and ironer got so hot they scorched the linens. Even the patients have noticed the better quality of work.

Modernization came just at the right time. Community Hospital's old equipment was installed in 1922, when the hospital was built. At that time it only had 72 beds. However, in 1958, the number of beds was increased to 101.

"If we had 101 beds and the old laundry equipment," Mrs. Everson says, "our bills would have been tremendous, our staff overworked, and our linen not up to par. We have this problem licked now." □



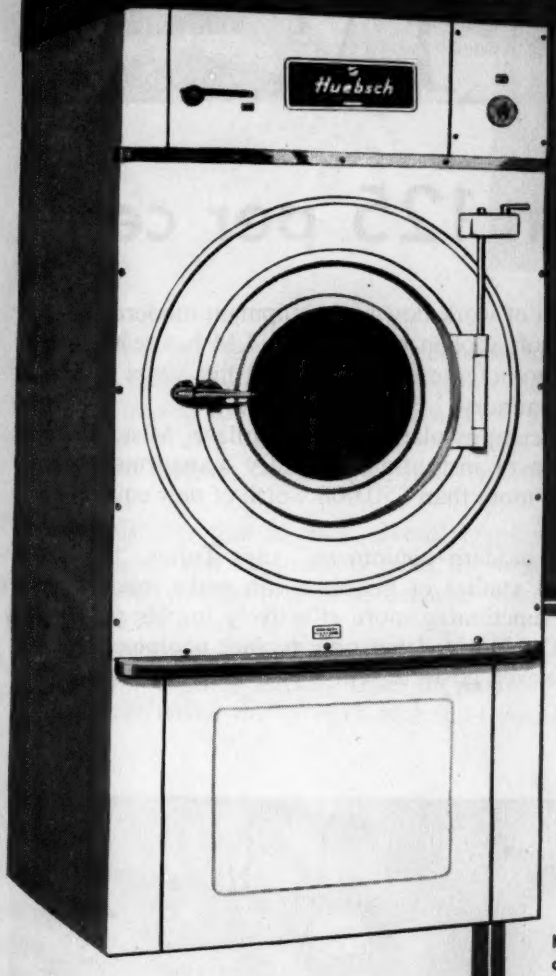
Washman adjusts washer-extractor. The hundred-pound unit washes and extracts 100 sheets per load.



Superintendent David G. Hutchison has every reason in the world to smile. His laundry does a top job and saves the hospital money.

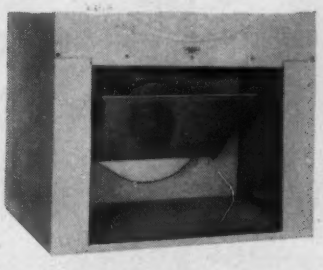
New tumbler-dryer, a 36x30 four-coil-type, is capable of handling 40-pound loads.

Here's why the HUEBSCH "37" STEAM-HEATED LAUNDRY TUMBLER IS YOUR BEST BUY!

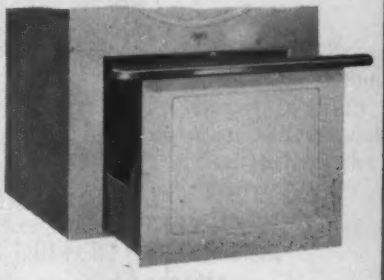


Huebsch "37" uses combination belt and chain drive because it's quieter and more dependable than ordinary gear-reducer drives.

Adjust the damper to hot (or any intermediate) position, and set the timer. When the load is dried, signal indicates that load is now running in cool air, ready to be removed.



Greatest dryer improvement in years! New, self-cleaning lint screen deposits lint into drawer automatically, no scraping, (Patent applied for).



The new lint drawer has extra-large capacity. It is easy to clean and requires only occasional emptying.

• Famous for good looks and dependability, the Huebsch "37" has added exclusive new features which make it an even better buy for your money! Available in three sizes . . . 37″x18″, 37″x24″, 37″x30″. Choice of *any* color at no extra cost. Find out why the Huebsch "37" Steam-Heated Tumbler is America's big favorite. Get the complete story from your Huebsch distributor . . . or write to

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How to hike production 125 per cent

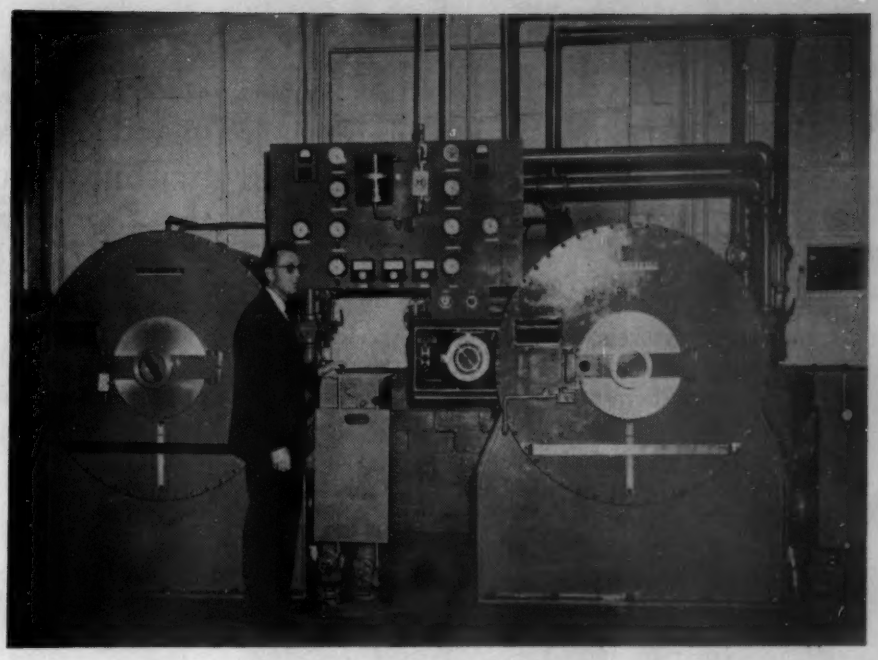
Veteran LM R. B. Tullos of Mississippi State University conducts a continuous program of modernization which has cut costs and stepped up plant productivity

A consistent campaign of work flow and equipment modernization on the part of its soft spoken but dynamic LM has resulted in a 125 per cent production increase during the past five years at Mississippi State University laundry.

Since taking over the campus plant at State College, Miss., R. B. Tullos, a 30-year veteran of institutional laundry management, has been authorized to install more than $50,000 worth of new equipment in his operation.

"Even with the most modern equipment," says Tullos, "an LM who conducts continuous studies of his plant can make innovations to keep the equipment functioning more effectively for his personal method of operation. That's why I not only replace equipment with newer, faster units whenever possible, but I also look for new ways

One of Tullos' promotion campaigns includes "Beat Ole Miss" bands that are attached to shirts processed by the laundry before the traditional game between Mississippi State and U. of Miss.



Instrument panel between the two washer-extractors gives Tullos all the information he needs to produce quality work.

in which to get the most out of my equipment."

One example of modernizing work flow occurred shortly after Tullos moved into the plant. Five years ago, he found that laundry checked in over the counter from 4,000 students and 800 faculty and staff families was dumped into baskets and rolled 50 feet to the checker.

Tullos saw that it took several employees working a full day's schedule to roll the baskets from the counter to the checker. The setup was doubly inefficient because these workers kept getting in one another's way.

To correct this, the LM installed a series of belt conveyors to carry incoming bundles directly from the counter to the checker. In one stroke, he saved the services of a full-time employee and cleared the

This "laundry within a laundry" section handles all the quick service work for the university.

Mississippi State plant is loaded with production boosters. Operation features a "laundry within a laundry" and is able to offer one day laundry and two-day drycleaning services.

area for more work space by removing 12 baskets.

Another major step in Tullos' drive toward better, faster production is his "laundry within a laundry." This started just after the belt conveyor arrangement proved so successful.

At the time, Tullos noticed that most students had to get by with limited wardrobes; the five-day service then prevalent frequently left them without a clothing reserve.

To correct this, he convinced his administrators that for a $10,000 expenditure, he could cut the five-day service all the way down to one-day service. Receiving an all-clear, he took a 20 by 45-foot area of the laundry and transformed it into a section turning out wash and damp dry and wash and fluff dry items on a single day basis. The $10,000 went into six washers, two twin tumblers and two extractors.

Tullos explains: "I bought the most modern equipment for this small laundry largely as a test for increased production. It worked so well that I extended a faster service throughout the entire plant.

"Today, we offer two-hour service on damp dried items, three hours on fluff dried, and two days for a finished bundle. Drycleaning, too, is a two-day service. We found that if you use the best equipment, lay it out for maximum efficiency, and impress on your workers the need for faster service, you can increase production substantially without increasing your costs."

Hiked shirt production

Another example of this philosophy is found in the shirt finishing area of Tullos' laundry. When he was using four two-girl units, the eight operators were averaging 200 shirts an hour. After the LM bought two new fully automatic cabinet units, however, he saw four operators replace the eight and still chalk up a 100 per cent production increase.

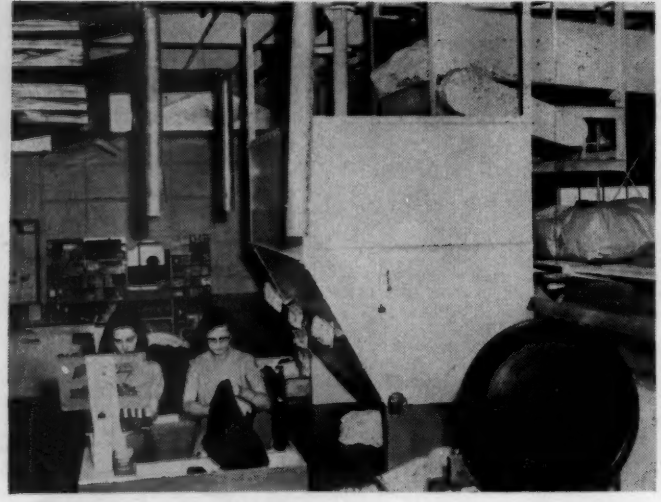
Still another production booster resulting from R. B. Tullos' ingenuity is found in the pants finishing section on the drycleaning side of the plant. Five years ago, this section was equipped with 13 foot-operated presses. These were lined in two parallel rows with a large table in between where the pants were piled in a haphazard fashion. The operators had to leave the press, pick up a pair of pants, press them and then hang them on the slick rail for distribution. Under this system each operator pressed from 65 to 80 pairs of pants in an eight hour day.

Tullos removed all 13 of these presses and equipped this section with seven unit presses. Each unit includes a topper and a legger. He also placed each press in its own individual nook completely equipped with a ventilating duct for operator comfort.

A chain belt was equipped down the center of the two rows of presses to replace the old table method. Under this system, trousers are brought to the operators and placed by their side in such a way that when the operators pick up a pair of pants they are ready to place it on the press in the correct fashion. After the pants are finished, coat hangers are provided, and the pants are hung on the chain drive which takes them to the inspection station. The operator never leaves her press, and

continued on page 56

Bundles are delivered to hopper via a belt conveyor. Here garments are tagged before going to drycleaning unit.



Shirt production has been increased about 100 per cent since the installation of the shirt finishing units.

NEW DRY ORGANIC CHLORINE BLEACHES SOLVE TWOFOLD LAUNDRY PROBLEM

Unlike older dry bleaches, new organic chlorine compounds bleach out stains as well as heavy-duty liquid chlorine bleaches. Yet of all the really effective bleaching products, they are the *easiest* to use . . . the *safest* on valuable linens and white goods.

SAVE LINENS. New organic chlorine dry bleaches are kinder to fabrics, actually protect your investment in linens. Because they don't reduce fiber tensile strength, they extend the life of cottons and synthetics—make costly, frequent linen replacements unnecessary. New organic chlorine dry bleaches are virtually mistakeproof to use. Require no pre-diluting or dissolving. You add exactly what you need. Because they are so stable in storage, you don't have to "guess" about strength or amounts needed. You're always sure of *uniform* bleaching.

SAVE WORK. No diluting prior to use; you simply add your new chlorine dry bleach to the wheel and enjoy complete control. It dissolves rapidly, does not cause pinholing or fabric damage from high local concentrations. Because the newer chlorine dry bleaches do not form sludge and contain no suds-killing calcium, soap specking is virtually eliminated. They are much easier to store and handle than liquid bleach, actually reduce bleach loss and eliminate danger from container breakage and accidental spills.

Because of these major advantages, hospital, hotel and institutional laundry managers everywhere are changing to new organic chlorine dry bleaches. These products are made possible by a dry organic source of available chlorine, originated by Monsanto Chemical Company and trademarked "ACL."

For more information on the advantages to you of dry bleaches based on ACL, and the names of outstanding manufacturers in your area who make these quality dry bleaches, write:

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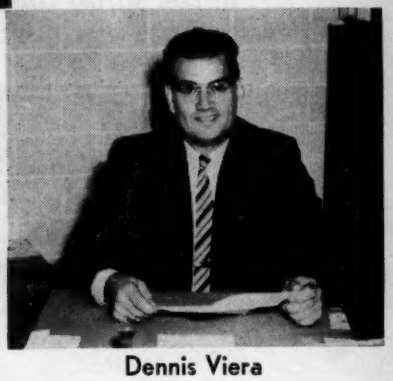
The most modern equipment is used throughout the large, airy plant. Here a mechanical spreader helps speed up the ironing of sheets.

How modern laundry was planned, built for future expansion



Dennis Viera

Few institutional laundries in the country can boast of a plant as modern and efficient as that of the Norwalk Hospital, Norwalk, Conn.

Credit for this up-to-date operation belongs to an enlightened and progressively-minded Board of Trustees and hospital administration, which readily utilized the talents of its LM, Dennis Viera, in planning for the construction of a new laundry building.

In planning this major addition, the Trustees, Administrator and the LM were mindful of the inadequacies of the old laundry and gave much thought to design that would lend itself to future expansion.

"Not only was more space needed to meet present demands made upon the hospital's laundry, but we also made certain that we would provide sufficient space for further expansion at a later date," commented Viera, a 13-year veteran of the 350-bed institution and past president of the Connecticut Laundry Managers' Association.

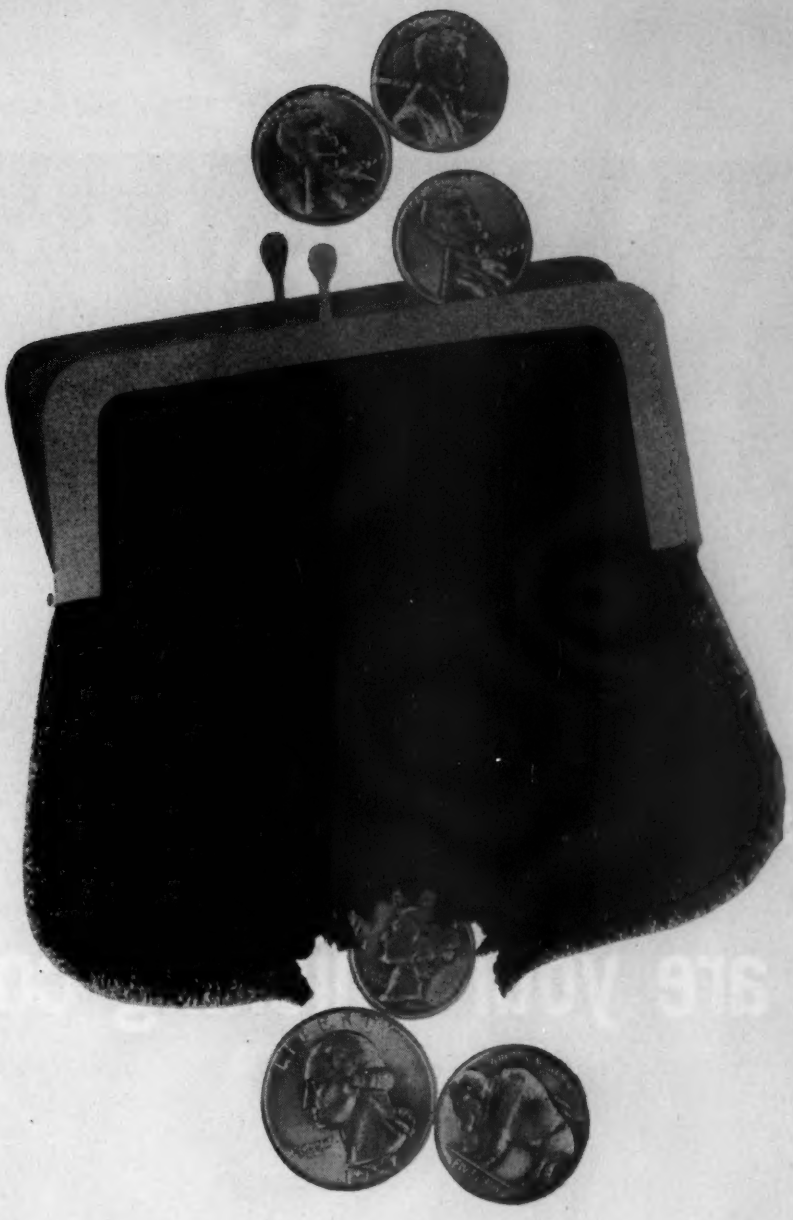
He remembered the lessons he learned in the crowded quarters of the hospital's old laundry in the main building. And he learned his lessons well, for the new two-story plant, attached to the main hospital by a corridor, is airy and lint-free.

When the dimensions of the laundry building were decided, Viera planned for the placement of the equipment which would provide a smooth production system for both current and future needs. During one stage, the veteran manager was faced with a work flow problem involving the location of his dryers.

Plans called for the three 350-pound washwheels to be fed via a gravity feed chute from the second floor sorting room. The clean, wet linen is then taken up the line by mechanical hoists to one of the extractors.

"So far," he said, "the flow of work is excellent. However, we had to find a place for our dryers.

Automatic washwheels are loaded via a gravity feed chute leading from the sorting room on the floor above.



PENNY WISE...POUND FOOLISH?

The powerful but fabric-safe Pensal M and Cloreze team offers dollar savings by prolonging linen life. Low cost per pound of supplies is no sure guide to operating economies. Pensal® M may cost a little more than less effective alkalis but it gives you fresh, stain-free results with minimum bleaching. That means longer linen life. And if you use Cloreze® dedusted organic dry bleach, you get extra bleaching safety. For real economy, ask your Pennsalt distributor about the advantages of Pensal M and Cloreze.

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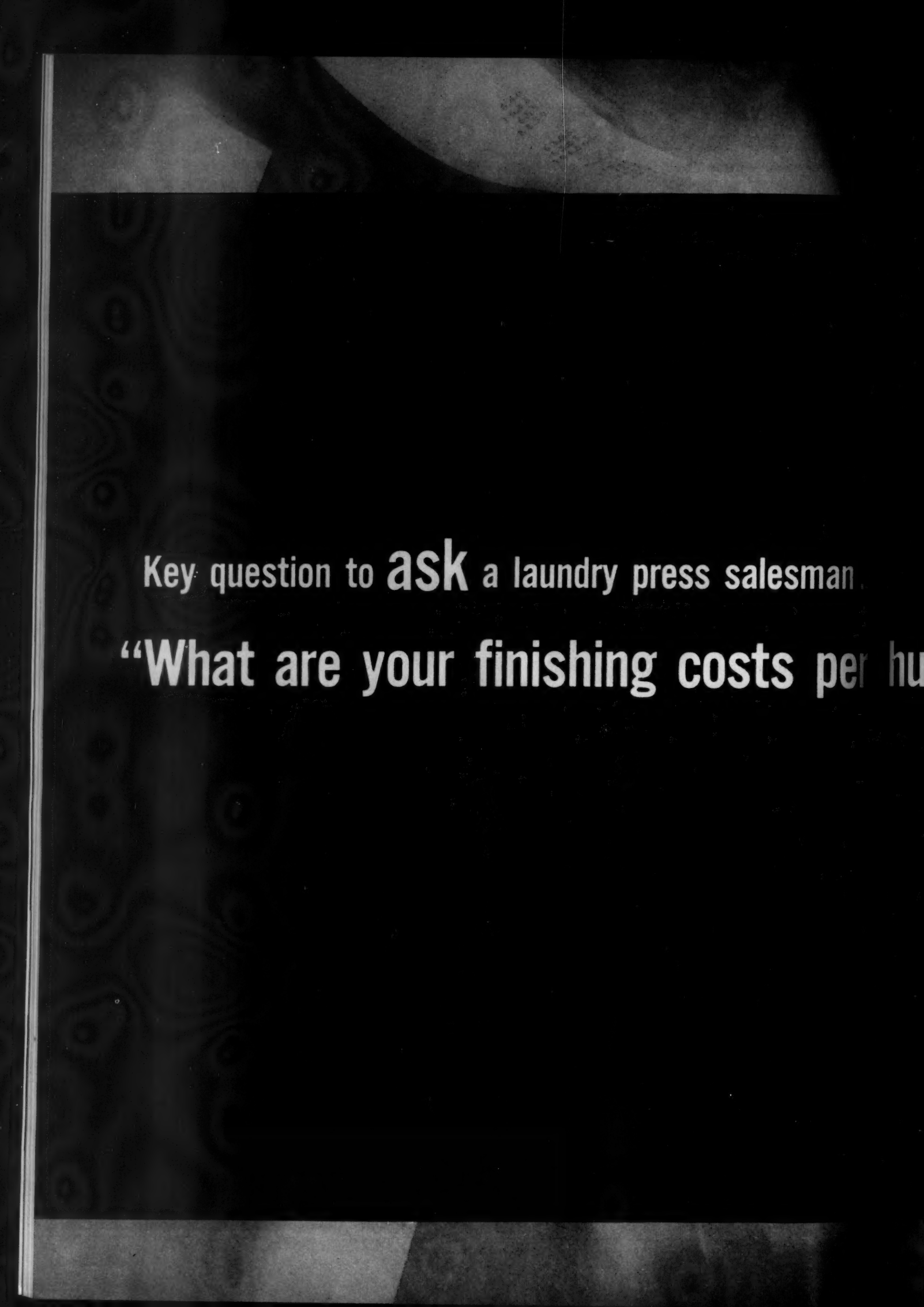

Key question to ask a laundry press salesman.
"What are your finishing costs per hu

an.

per hundred?"

At Flushing (N. Y.) Hospital and Dispensary these two units of Model 54½ Super-Zarmo and Model 106-A Super-Zarmoette Presses finish uniforms and other garments at the lowest possible cost per hundred pieces.

Your American salesman's answer is positive and direct. "Comparison tests prove our Model 54½ Super-Zarmo Apparel Press will save you an average of *90c or more per 100* on your apparel finishing costs!" And, he'll back up his answer with facts! This applies to every hospital laundry that finishes garments of any type. Here's why:

• Extra-large buck requires fewer press lays. • Unique shape of buck gives unlimited versatility. Accommodates a wide variety of garments, eliminating extra lays on other presses. • Powerful, unvarying *direct-upward pressure* quickly imparts a fine-quality finish to even the heaviest garments.

No other laundry press can match the Model 54½ Super-Zarmo for quality, speed and versatility.

For a sure way to lower *your* cost per hundred garments, call your nearby American representative. He'll gladly show you a Model 54½ Super-Zarmo Press Unit in action. Or, if you prefer, mail the coupon for complete information.

The American Laundry Machinery Company, Cincinnati 12, Ohio

You get more from

American

The American Laundry Machinery Company ALM-606
Cincinnati 12, Ohio

Please send Catalog AK 530-542 (54½) which tells how the Model 54½ Super-Zarmo Press will lower my finishing costs.

Name_____

Care of_____

Address_____

City_____ Zone____ State_____

In Canada—The Canadian Laundry Machinery Company, Ltd., 47-93 Sterling Road, Toronto 3, Ontario

Circle No. 1 on Post Card

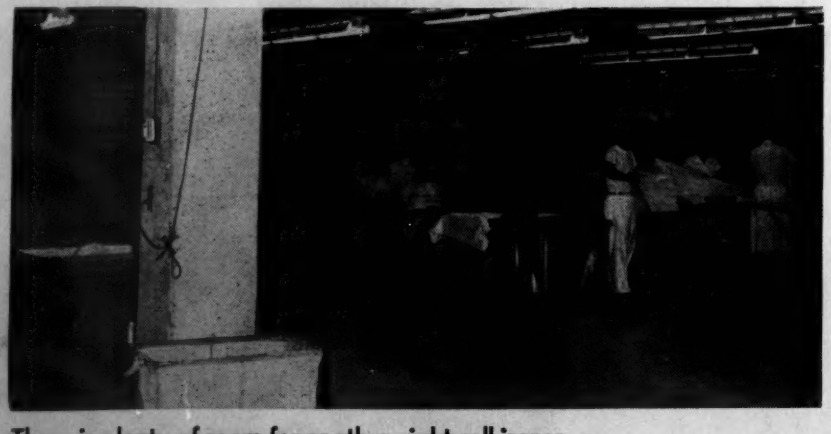
Part of the new equipment is this heat patching unit which saves hours of time for the staff. The patch adheres to linen with pressure and heat.

We wanted the dryers to be near the linen distribution point. Therefore, they could not be placed next to the extractors.

"Finally, we hit upon what we considered the best and most efficient layout for the plant. Since we had to bring the hoist back in position for a new load, why not, we asked, put the dryers before the washwheels? Now, once the extracting process is finished, we hoist the basket and bring it down the line to the dryers, empty it and the extractor is ready for a new load of clean, wet wash."

About 99 per cent of the equipment is new. The automatic features on some units speed up the loading or unloading of washers or extractors. The result is more efficient and greater output.

The new laundry was completed and in production during the summer of 1958. It is presently geared to handle linen for 500 beds. It also does 95 per cent of the hospital's household cleaning and all the cleaning and washing for two nurses' and one intern home. However, when it becomes necessary to install additional equipment, there is room for another eight-roll ironer and a 350-pound washwheel. The laundry will then be able to take care of the linen for a 700-bed hospital. "And," said Viera, "we will not have to increase our present production staff by very much."



There is plenty of room for another eight-roll ironer and a 350-pound washwheel in the spacious washroom.

In addition to the 24 people in the laundry, Viera supervises 75 other service employees. His title is Director of Services for the hospital, and he's responsible for both the laundry and housekeeping departments.

Experts consulted

Like all good LM's, Viera takes his job seriously. He knows that he must deliver germ-free, clean linen. Before making any layout plans, he visited many institutional laundries. He also consulted with equipment experts, electricians, plumbers, and other laundry managers. Most of his findings are incorporated in the new plant.

The seriousness with which Viera takes his work is exemplified by this statement made to IL's reporter:

"When we have an expectant mother in the delivery room, we don't have the right to make her wait for our delivery of linen.

"Since immediate linen delivery is of top priority in a hospital, institutional laundries must always plan for emergency breakdowns in equipment. Therefore, it's wise to have a 'spare tire.' The OR, delivery room, wards, etc. don't want to, and haven't time to, listen to an LM's excuses. They want clean linen, fast! It's our job to see that they get it."

It was with this idea in mind that Dennis Viera laid the groundwork for the placement of his equipment. The success with which his contributions combined with the judgment of the Trustees and Administrator paid off is a credit to him as well as to an administration, which had sufficient confidence in its LM to gladly seek his help in a vital phase of hospital services. □

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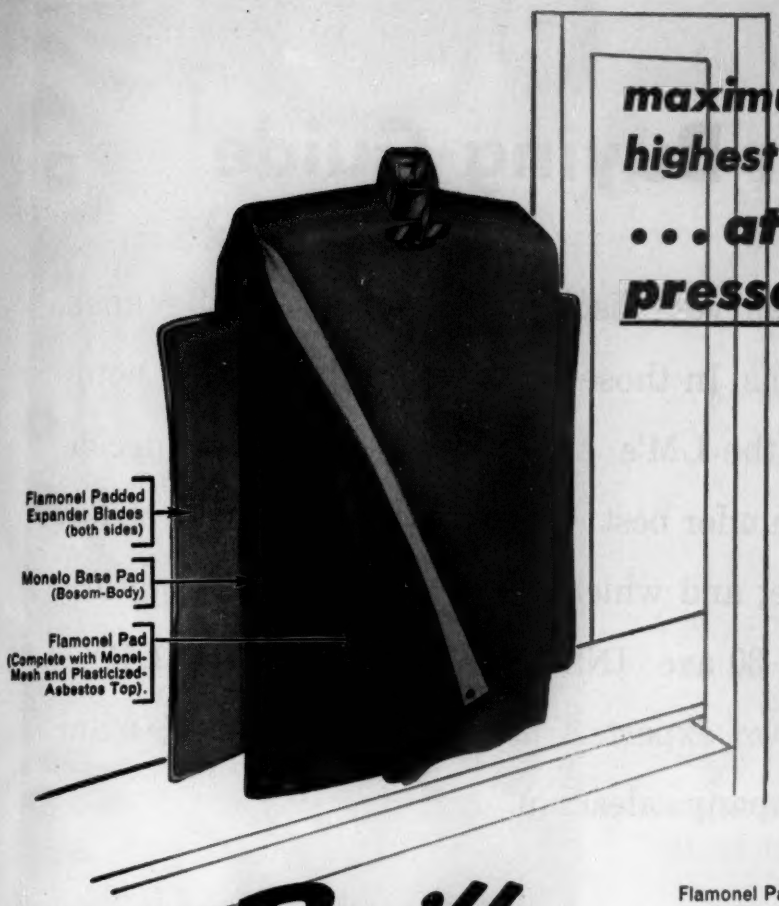
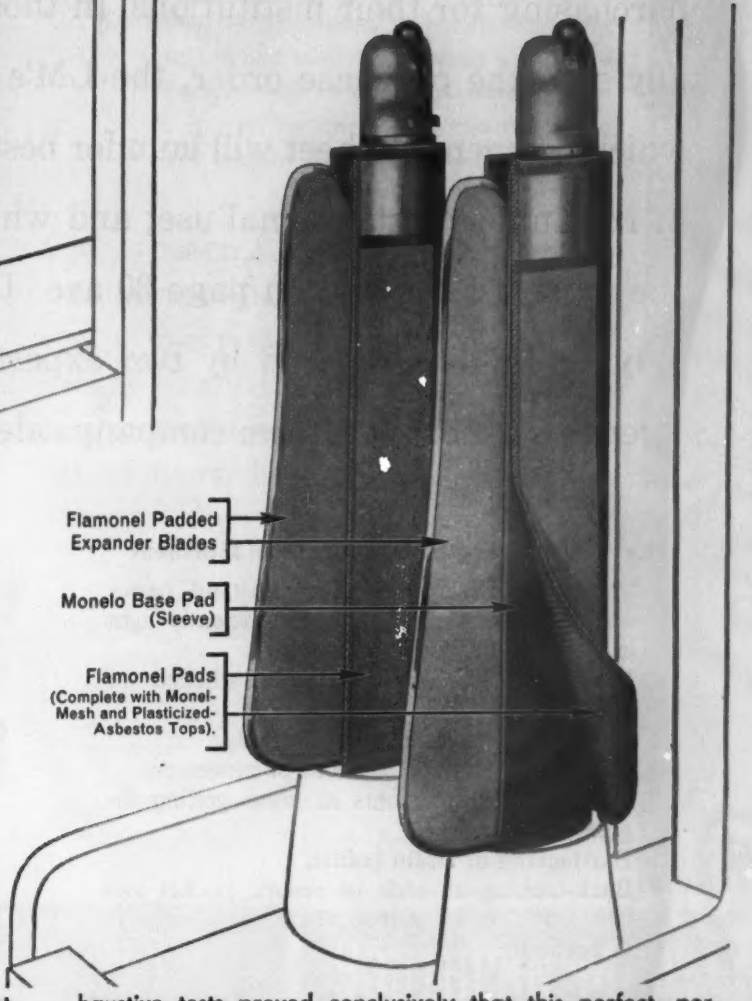
highest quality finishing
. . . at less cost per shirt pressed than ever before!


Flamonel Padded Expander Blades (both sides)
Monelo Base Pad (Bosom-Body)
Flamonel Pad (Complete with Monel-Mesh and Plasticized-Asbestos Top).


Flamonel Padded Expander Blades
Monelo Base Pad (Sleeve)
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Press manufacturers have long recognized the important part specially engineered **pads** play in the satisfaction you get from the operation of your high production upright and cabinet type bosom-body and sleeve presses. That's why **Ajax, American, Forse, New Yorker, Pantex, Prosperity** and **Unipress** chose only this specially-designed, plant-proved Resillo padding combination as standard equipment for their modern, high speed shirt units. Exhaustive tests proved conclusively that this perfect, permanent-type padding delivered **finest quality finishing, maximum production** and **utmost economy.**

To guarantee the utmost in production, highest quality pressing, and economy, use only your Press Manufacturer's recommended Resillo Monelo and Flamonel Pads.

[**IMPORTANT** — Expander Blades must be freshly padded when installing Monelo Base Pads and Flamonel Pads.]

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Your Linen Buying Guide

Laundry managers, a recent survey disclosed, do much of the linen purchasing for their institutions. In those cases where they do not actually sign the purchase order, the LM's are often called in to decide which garment or sheet will launder best; which will withstand the strain of continuous institutional use; and which seems to be the best buy for the money. Here and on page 30 are INSTITUTIONAL LAUNDRY's Buying Guide, prepared by two experts. One is a hospital laundry manager, the other a uniform company salesman.

What To Look For In Any Hospital Garment

1. Sturdy materials that will withstand heavy wear and laundering, yet are sufficiently light in weight to be worn comfortably.
2. Finished seams, double-needle stitched or serged.
3. Proportioned sizes to fit comfortably.
4. Full, roomy cut for freedom of movement.
5. Material reinforcements at areas getting the greatest wear.
6. Bar-tacking at strain points.
7. Back-tacking at ends of seams, pocket and cuff hems, other points where extra strength is needed.

What To Look For In Surgeons' Gowns

Essential Features

1. Complete coverage . . . full 54 inch length, wide overlapping back panels.
2. Raglan sleeves for unhampered movement.
3. Sturdy tape ties at back neckline and waistline, firmly attached.
4. Double-thick stockinette cuffs to retain elasticity.

Optional Features

1. Tunnel belt, bar-tacked to gown.
2. Self-material belt, attached to reinforced front belt patch.
3. Reinforced front yoke.

What To Look For In Patient Gowns

Essential Features

1. Adequate coverage, at least 43 inches in length before washing, full bottom sweep.
2. Reinforced yoke for extra wear.
3. Short, wide sleeves to facilitate examination and injections.
4. Neckline reinforced with sturdy tape.

Optional Features

1. Fastens with tape ties bar-tacked to gown.
2. Fastens with overlapping back tabs and knot buttons bar-tacked to shoulders.
3. Knit material for hyper-sensitive cases such as burns.
4. Seersucker material for comfort in hot climates and improved appearance when tumbled only.
5. Handy breast pocket.
6. One-piece construction with no side seams.

What To Look For In Scrub Suits

Shirts

Essential Features

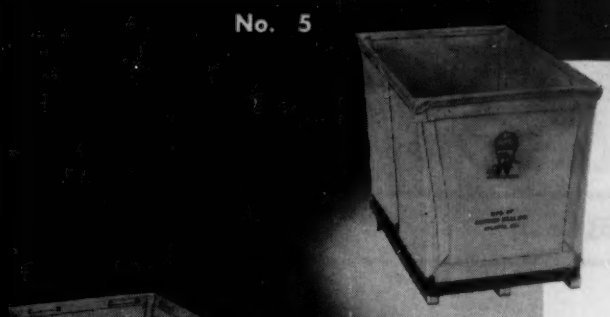
1. Reinforced "V" neck.
2. Bar-tacked at shoulder points and end of sleeves to prevent seam opening when putting on or taking off shirt.
3. Full cut armhole and arm opening.

Trousers

Essential Features

1. Full roomy crotch.
2. Self material drawstring, permanently attached.
3. Full cut leg and bottom openings.

continued on page 54



Save Money!

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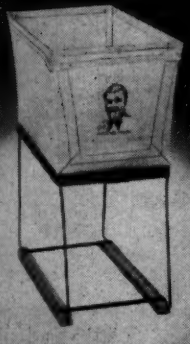
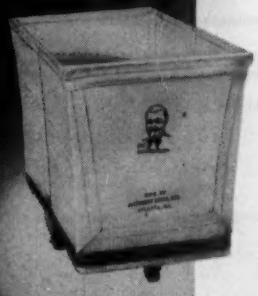
The new Southern Thrifty baskets and trucks are lighter weight—easier to handle. They are rugged and sturdy! The strong frames are covered with long-lasting canvas woven on our own looms, and reinforced with leather at strategic points. Available in popular sizes.

No. 5 THRIFTY Skid Basket
No. 10 THRIFTY Hospital Basket
No. 15 THRIFTY Elevated Basket
No. 25 THRIFTY Utility Truck
No. 40 THRIFTY Hospital Truck
No. 55 THRIFTY Elevated Truck





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DISTRIBUTORS

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THE EFFECT OF ALKALI, SOUR, BLEACH, WATER AND HEAT ON NATURAL FIBERS

Fiber	Alkali	Sour	Bleach	Water	Heat
COTTON	ALKALI HAS VERY LITTLE EFFECT ON COTTON FIBER UNLESS THE COTTON FABRIC IS PERMITTED TO BOIL WITH THE CAUSTIC SODA, IN THE PRESENCE OF AIR, OVER A PERIOD OF TIME. IF THIS HAPPENS THE COTTON FIBERS ARE WEAKENED.	SOUR CAUSES NO DAMAGE TO COTTON FIBERS UNDER CERTAIN CONDITIONS. MINERAL ACID: HCL, H_2SO_4, HNO_3 OR OXALIC ACID WILL DAMAGE FIBER IN PROPORTION TO THE EXTENT TO WHICH THE pH OF THE SOLUTION, OR SOUR BATH, IS DEPRESSED BELOW A SAFE LEVEL.	BLEACH TENDS TO WEAKEN THE COTTON FIBERS, IF IT IS NOT USED PROPERLY. 2 QUARTS OF 1% AVAILABLE CHLORINE (CL), PER 100 POUNDS OF DRY LINENS IS SUFFICIENT. MORE CONCENTRATED SOLUTIONS DIMINISH THE TENSILE STRENGTH.	WATER HAS NO DETRIMENTAL EFFECT ON COTTON FIBER. HOWEVER, IF WATER IS PRESENT, MILDEW TENDS TO DEVELOP ON THE FIBER OF COTTON MATERIALS.	UNDER THE USUAL CONDITIONS THAT PREVAIL IN THE LAUNDRY, HEAT DOES NOT AFFECT COTTON FIBERS.
LINEN	CHEMICALS USED IN THE LAUNDRY WASHROOM REACT ON LINEN FIBERS IN MUCH THE SAME MANNER IN WHICH THEY AFFECT COTTON. THAT WHICH IS HARMFUL TO COTTON WILL BE HARMFUL TO LINEN.			SAME AS FOR COTTON	SAME AS FOR COTTON
WOOL	THE FABRIC IS LIKELY TO BECOME HARSH AND YELLOW, IF WOOL IS TREATED WITH ALKALI SOLUTION. THE WOOL FIBERS WILL DISSOLVE ENTIRELY IF THE ALKALI SOLUTION IS SUFFICIENTLY HOT.	SOUR HAS VERY LITTLE OR NO EFFECT ON THE FIBERS OF WOOL PRESENT IN ITEMS THAT ARE LAUNDERED. HOWEVER, A CONCENTRATED SOLUTION OF ANY OF THE MINERAL ACIDS WILL DESTROY WOOL FIBERS.	A CHLORINE BLEACHING AGENT SHOULD NEVER BE USED ON WOOLENS. HYDORGEN PEROXIDE (H_2O_2), IS SUCCESSFULLY USED AS A BLEACH FOR FABRICS MADE OF WOOL.	WATER TENDS TO SOFTEN THE WOOL FIBERS AND WILL CAUSE WOOLEN FABRICS TO CHANGE IN SHAPE. ANY FRICTION OR AGITATION OF WOOLENS, WHILE WET, CAUSES FELTING AND SHRINKING.	AN ELEVATED TEMPERATURE IS DETRIMENTAL TO WOOL FIBERS BECAUSE IT WILL TURN THE FABRIC YELLOW AND ALSO CAUSE FELTING.
SILK	THE REACTION OF CHEMICALS USED IN THE LAUNDRY CYCLE WITH SILK IS VERY MUCH THE SAME AS THE REACTION OF THESE CHEMICALS WITH WOOL FIBERS. THAT WHICH IS HARMFUL TO WOOLEN FABRICS WILL ALSO DAMAGE SILKS.				

From "THE INSTITUTIONAL LAUNDRY AS I SEE IT," by Sister Mary Celeste

Procter & Gamble research brings you better-than-ever

OZONITE

The best detergent ever built to lengthen linen life!

Never before has there been an all-in-one detergent that helps you get more life from linens than today's Improved Ozonite.

Improved in Procter & Gamble's Laundry Research Laboratory, today's Ozonite was thoroughly field tested under actual working conditions. Results proved that this ready-to-use balanced blend of high titer soaps and alkaline builders guarantees superior soil removal, excellent whiteness maintenance and *complete* safety to linens!

Equally important, Ozonite dissolves quickly and rinses easily, thus shortens wash wheel time . . . helps lengthen linen life. And because Ozonite is always uniform in quality and strength even an inexperienced washman can get best results. When the proper suds level is reached, he knows he's added enough Ozonite!

Order a 30-day trial supply of today's Ozonite!

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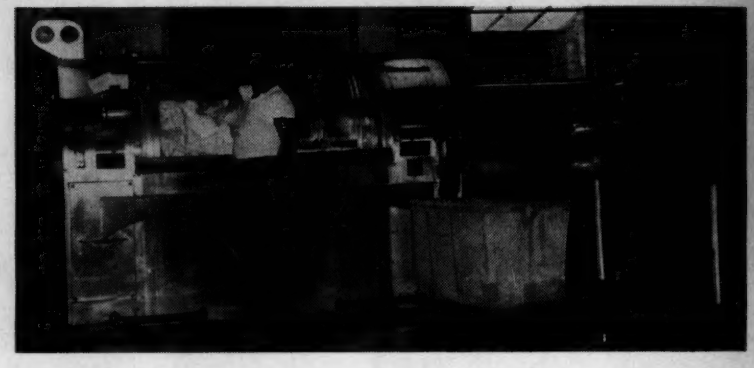
Circle No. 30 on Post Card

Callnin inspects the first floor of his plant. Hospital linen is handled in this area, while . . .



. . . the soiled dormitory linen is processed in the other plant located in the building's basement.

University of Michigan LM, Callnin, found his two-plant operation prevents hospital work from contaminating students' dorm linen

How a dual plant serves two very different type "customers"

The job of handling 5.9 million pounds of laundry a year is not an easy one. But, when you complicate it with the additional problem of keeping contaminated hospital linen from mixing with dormitory laundry, you really come up with a headache.

This is the puzzle D. A. Callnin, superintendent of the University of Michigan laundry, has to solve six days a week. Callnin, whose offices are located in an airy, well-lighted three story plant near the center of the sprawling Ann Arbor campus, employs 170 full-time workers to help him separate the laundry of the 1,000 bed Medical Center from the dormitory and general university linen.

For all practical purposes, Callnin handles the job by thinking along the lines of operating two distinct plants, one for a hospital, the other for a 20,000 student university. Hospital linen constitutes 63 per cent of volume, while university linen comes to 37 per cent of the load.

All the university's linen is marked either "University Hospital" or carries the name of the residence hall. Linen is also marked with the date of issue. These markings enable Callnin to bill each residence hall and the Medical Center as individual customers. In addition, linen control is made the direct responsibility of the hospital or residence hall.

A customer's count, which is checked at the plant while sorting, is enclosed in each bundle sent for laundering. Customers maintain their own inventory, so that Callnin can devote his full time to operating an efficient plant rather than being plagued with problems of overage or shortage of linen.

The markings on all linen also help the university determine the cost of operating each division. Once billed, the collections are processed by the university's business office.

Separation of hospital from dormitory laundry is also achieved by using one truck to pick up residence hall linen and another truck for soiled Medical Center laundry. There are four pick-ups made at the hospital, three morning and one afternoon. Hospital laundry chutes are thereby kept clear and the danger of spreading infection minimized. Dormitory linen is picked up at least every other day, occasionally once a day.

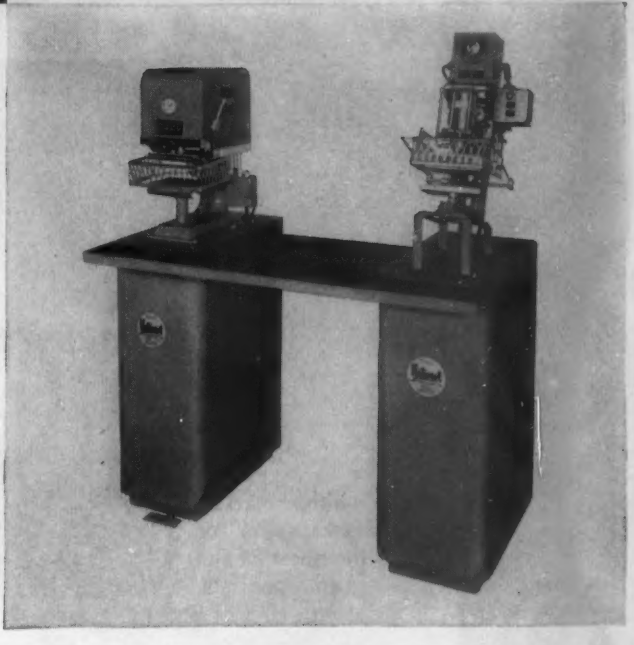
Employees who handle the contaminated linen do not even approach the laundry picked up from the residence halls. After being unloaded from the trucks, dormitory linen is sorted into four

continued on page 34

here's why institutions prefer the

system for permanent identification of linens

this is the equipment



- identifies your linens with your own property mark
- protects your linens from theft and loss
- permits you to incorporate department name and original issue date in your mark
- makes each department responsible for the linens it uses
- know which type and make of garments give you the best service
- marks all materials including heavy nap towels and wash cloths

This system of permanent identification is a simple, two-step operation consisting of: 1. linens are marked by the DI-MARK Machine with National's RESISTO INK, and 2. the mark is then heat-set by the THERMO-SET Machine. By following this procedure, you get a clearly defined mark that is guaranteed to remain brilliantly legible for the life of the marked piece or garment.

You want positive control of your linens. Write today for National's free illustrated brochure on "Property Identification," and get all the facts about this clean, accurate system of permanent marking.

and the mark it makes

THE National MARKING MACHINE CO.

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National Marking Machines and Conveyors are preferred by better plants the world over!

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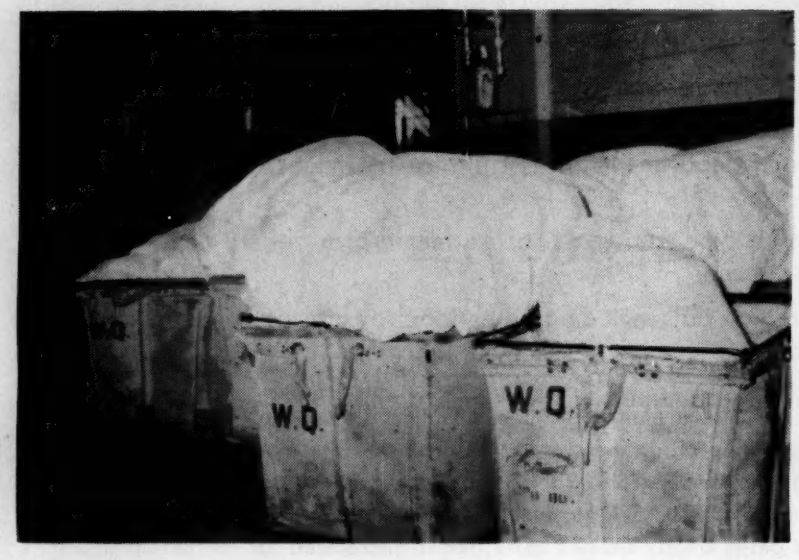
Operator at one of the 10 sewing machines makes sure each uniform is finished to military inspection standards.



All linen is either marked "University Hospital" or carries the name of the residence hall.

and the hospital laundry into 18 classifications. Different sorters are used for each division.

The first floor of the plant is used almost exclusively for the hospital flatwork. The plant's larger washers, extractors and the flatwork ironers are located on this floor. Maximum efficiency is achieved by arranging equipment in a straight line flow. This same efficient work flow is found in the basement, where the dormitory flat and starch pieces are laundered. Smaller washers and extractors are found in this section of the plant.

Uniforms are processed on the second floor, where 66 presses and 10 sewing machines make sure that each uniform is finished to Marine full dress inspection standards.

During the University's 1957-58 fiscal year, the laundry's output was 5,916,000 pounds, including 703,000 starch pieces. Production has not always been this high. When the laundry first opened, it was designed solely for hospital use. However, as the university grew, so did the laundry. The basement was converted to handle the dormitory linen. University dieticians and housekeepers are especially pleased and comforted about the separation of hospital and general university laundry.

Personal laundry, which consists of several varieties of uniforms and the workclothes of machine shop employees, are picked up with the rest of the linen. All personal laundry is checked and listed on the customer's laundry list. After being processed, it is wrapped with the list for charges attached. The hospital collects a 15 cent service charge for each

continued on page 59

don't bleach the LIFE out of your linens

Minimum loss of tensile strength and maximum whiteness wash after wash. That's the kind of performance called for in modern laundry operations. AD-DRI BLEACH does your bleaching job right . . . time after time . . . because there's no mixing, no muss, no guesswork. You measure it dry right from the drum to the bleach suds. That's all there is to it.

For hotel, hospital or other institutional laundries, Ad-Dri is your most economical, time-saving, and effective bleach. See your laundry supply house for further information, or write us.

Ad-Dri® is a trademark.

Packed in 100-lb. Leverpak drums, New Ad-Dri Bleach

- is added dry to the bleach suds
- is added dry—right from the drum
- is easily measured out in the handy Dri-Ader cup

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Colored linens create a bright, cheerful atmosphere. Hotels have been using them to give each of their dining rooms individuality. In addition, vat-dyed linens are a natural for color code linen control systems.

Why many LMs are turning to vat-dyed linen

An increasing number of institutional laundries are now turning to vat dyes for the color coding of linens and uniforms.

Laundry managers are finding many advantages to vat dyeing linens. Among these are simplicity of application right in the wash wheel, ease of handling and storing, ready identification and separation of material and linens, a bright and cheerful atmosphere created by colors, in hospital wards as well as hotels. And in operating rooms, most doctors prefer green or gray shades over white because soft colors eliminate glare and reflections in surgery.

Moreover, it is found, there are considerable savings for the LM who uses vat dyes. White linens can be utilized for dyeing, faded garments can be re-dyed, and the inventory can be lowered by utilizing linens on hand.

Vat dyes are winning wide acceptance among LMs principally because they are safe and sanitary for hospital and surgical use. In addition, the dyes, which come in a wide range of shades, show superior fastness to washing, bleaching, chlorine, light exposure, detergents and hot pressing.

They're made in a paste or highly dispersible powder form, and are not water soluble. The vat dyes are chemically converted to a water soluble state by use of sodium hydroxide, a caustic, and sodium hydrosulfite, a hydro. Dyeing occurs when these two chemicals are added to the dyebath. This process is called "reduction," and it is during reduction that the dye is locked into the fiber.

Addition of sodium perborate reverts the dye back to its original state. This is called oxidation, and the dye is no longer soluble, but is permanently fixed in the fabric. The only way in which it can be removed is again to use the process of reduction by the addition of hydro and caustic. Even then, it can be only partly removed.

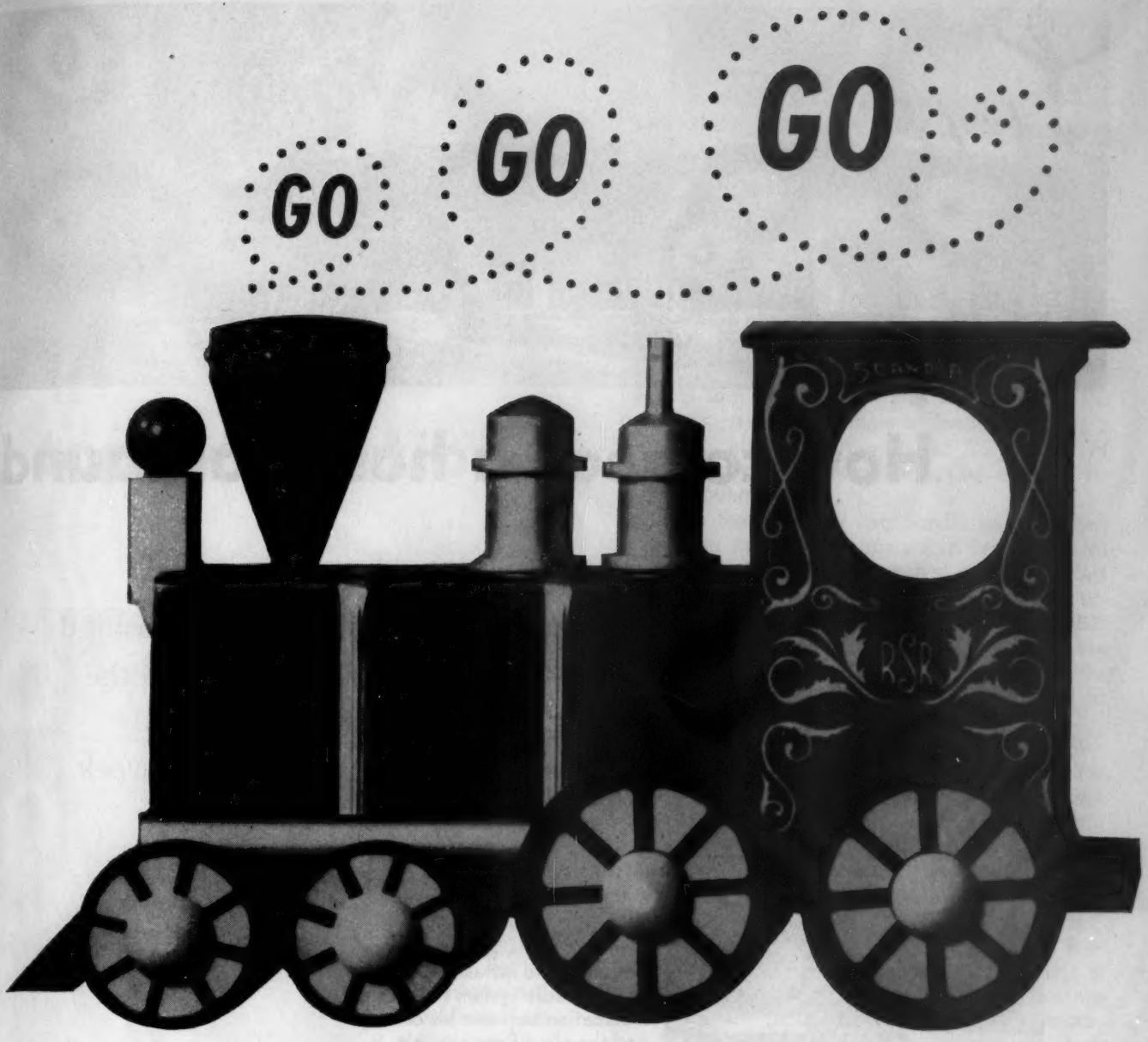
For all practical purposes, materials colored with vat dyes can be handled the same as white materials. In fact, vat dyed goods may be washed in the same wheel with white goods without danger of fading or staining the white linens.

To apply vat dyes, whose colors will last the life of the garment, present laundry wheel equipment can be used without suffering any ill effects.

The majority of LMs who have turned to vat dyes find it fast and economical to apply through the use of kits. These package units contain dye and chemicals in pliofilm bags. Kits are packaged to dye either 100 or 200 pound loads, dry weight.

LMs using the kits need no special formulas, no extra equipment, no weighings. Dyeing time is reduced, and there's no waste and no need to stock chemicals or dyes in bulk. □

This article is based on an address by Robert W. Powers of Koppers Co., Inc. It was delivered on April 24 at the Tulsa, Okla., meeting of the National Association of Institutional Laundry Managers.



GET *Magic Rinse*

FOR PLANT EFFICIENCY!

It costs just 2¢ per 100 pounds of wash to add Magic Rinse to your laundry and get all these production benefits: FASTER EXTRACTING because Magic Rinse gives wash a faster water release. FASTER DRYING because Magic Rinse lofts fibres. FASTER IRONER SPEED because Magic Rinse reduces static and rolling to a minimum. LONGER LINEN LIFE because Magic Rinse gives fibres lubricity and more tensile strength; reduces linting.

Available in 50 pound pails from jobbers in many areas or write

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3939 Valley Road, Cleveland 9, Ohio

Jobbers inquires invited

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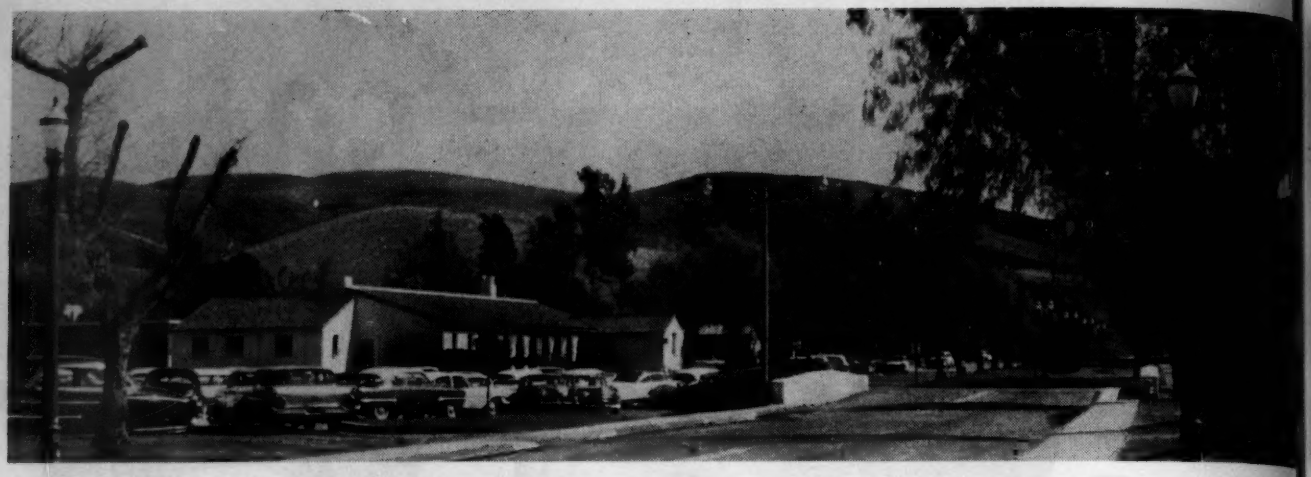
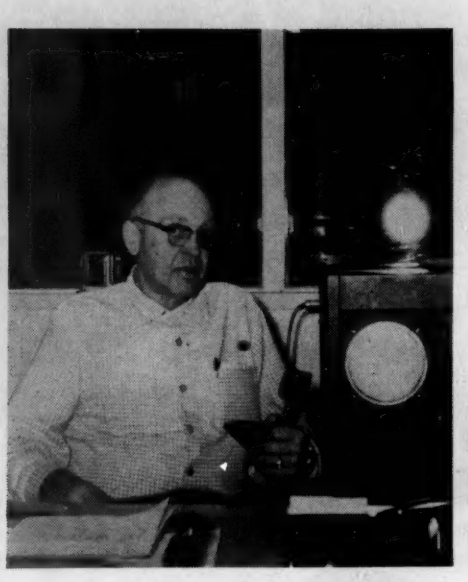


How to gear a hospital laund

California's Pacific State Hospital handles heaviest tonnage in the state. Its new plant can easily produce 250,000 pounds per week.



George Harris, laundry supervisor, designed and installed a two-channel radio system to make communication between his office and the plant floor possible. It also plays background music.

Brine tanks are filled via ground-level chute (left). Trucks merely dump salt down the hole. Sorting table (right) has a moving surface which makes a complete circuit every 3½ minutes.

...r top production

Although Pacific State Hospital, Pomona, is one of the smaller institutions of its kind in California, its laundry poundage is, and for many years has been, the heaviest of all the California state hospitals.

The outsize demand on laundry facilities has resulted in the construction of a modern plant specifically created to handle the hospital's particular needs.

Pacific State's new laundry, designed by California's Division of Architecture, meets specifications drafted by the three men most directly concerned with its operation. They are R. W. Hayes, assistant superintendent, business services; J. T. Haynie, service and supply officer and George F. Harris, laundry supervisor.

This installation now processes up to 170,000 pounds of laundry a week for a population of 3,000 patients—an average of some 55 pounds per patient. About 38,000 to 40,000 sheets; 21,000 towels and 50,000 diapers are included in the poundage.

Approximately half of the mental institution's patients are incontinent. This accounts for the hospital's enormous volume of laundry. While a continent adult patient may use 25 pounds of laundry a week, an incontinent one requires up to 140 pounds.

Pacific State finds it can handle its enormous demand in the 27,000 square-foot floor space of its new laundry, which launched operations last summer after three years of construction. It replaced a 30-year-old plant which taxed 17,000 square feet of floor space almost to the breaking point. The new laundry can easily turn out 250,000 pounds a week, while the old plant had to struggle to process 100,000 pounds.

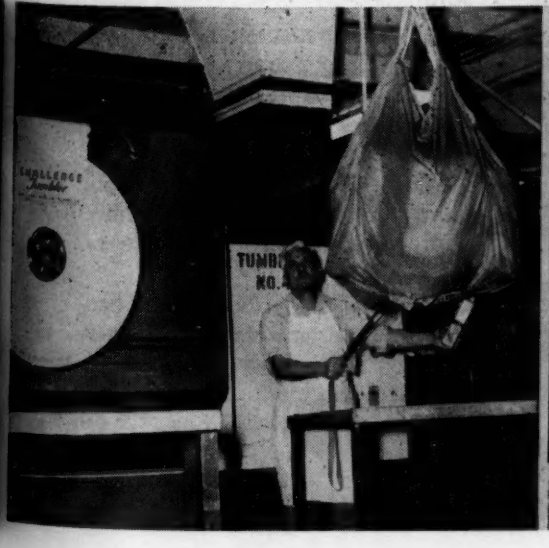
The physical plant, built at a cost of $1,380,000, contains many innovations. Brine tanks, for example, are located directly below the boiler room. This enables the delivery trucks to dump salt into the tanks. It is a decided improvement over the old operation, where it was necessary to carry salt up a ladder in buckets and dump it into the brine tanks by hand.

A forced-air circulation system is another feature of the new plant. This system provides a change of air every 60 seconds in the sorting room. The air change is almost absolutely necessary because of the heavy soil found in the linen.

Another feature is a lint extraction system

Lint extraction system draws lint by suction against filter paper that automatically rolls up to expose a fresh area for the lint.

Metal carts (left) do away with a second use of the hoist for dumping extracted laundry into tumblers. The plant has been laid out for straight-flow operation and uses automatic machinery (right).



Forced air circulation system in the sorting room provides a complete change of fresh air every 60 seconds. Soiled linen is dropped down chutes for delivery to the washwheels below.

A maximum of clear floor space is made available by the use of overhead blanket storage in the linen distribution area.

Overhead air vents in the press area provide controlled air for each operator. Plant is fluorescent lighted throughout.

that draws lint by suction against rolls of filter paper. This filter paper automatically rolls up to expose a fresh area for lint accumulation. Constant high suction and efficiency is thereby assured.

Laid out for straight-flow operation, the plant contains a dozen washers—four 800-pound, five 400-pound, one 350-pound and two 50-pound units. Six tumblers are serviced by two conveyor loaders.

As a result of the preponderance of extra-heavy soil, the laundry cycle is longer and goes through three more rinses than in most other institutions of this type. The boiler plant accommodates this added operation with two water softeners. These units provide for 400,000 pounds of laundry a week, if necessary.

The laundry is fluorescent-lighted throughout. A two-channel radio system makes communication between the office and plant floor possible. It also provides background music during the day. It was designed by Harris.

Harris' innovations

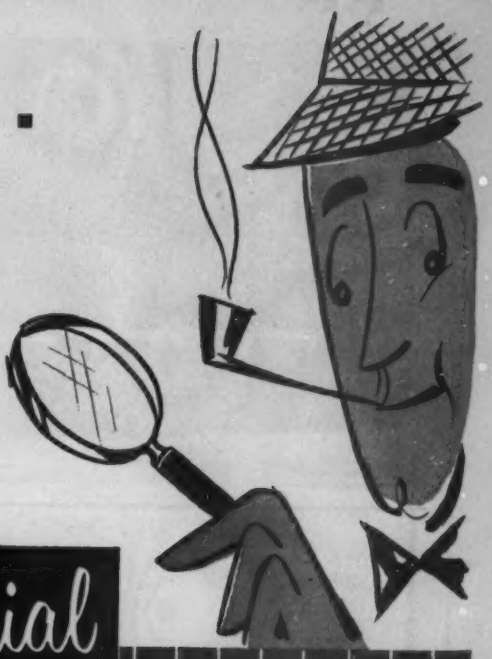
Many other innovations have resulted from Harris' 35 years of laundry experience. Bales coming from the extractors are placed on metal carts designed to do away with a second use of the hoist for dumping laundry into the tumblers. The carts were designed by Harris and built within the institution.

Automatic machinery and conveyor belt concepts are applied extensively. Spreaders decrease the number of personnel needed in preparing flatwork for ironing. A conveyor belt carries sheets from the folder and automatically shuts off when each stack reaches the pick-up point.

Clothing is sorted and binned at an oblong sorting table with a moving surface which makes a complete circuit in 3½ minutes.

continued on page 63

BEFORE YOU INVEST...
INVESTIGATE THE
SUPER Imperial



New! 8-ROLL CHEST TYPE IRONER

**GREATER STEAM CAPACITY—
GREATER IRONING SURFACE—
FOR PEAK VOLUME PRODUCTION**

Silent, powerful, efficient, economical . . . these are the "trademarks" of the new SUPER 8-Roll Imperial. Feature by feature, SUPER quality guarantees you the long-term satisfaction you have the right to demand from such an important investment.

With its extra-large padded pressure rolls (full 12⅛" bare diameter, 13¾" padded diameter) and extra-deep steam chests, the SUPER Imperial delivers 20% extra heated surface under pressure! The results . . . the greater drying capacity needed by institutions, hotels, linen supply and large commercial plants.

Yes... before you invest... investigate SUPER!

WRITE FOR SPECIFICATIONS AND ILLUSTRATED BROCHURE ON SUPER IRONERS AND WASHERS

SUPER LAUNDRY EQUIPMENT

SUPER LAUNDRY MACHINERY COMPANY

1113 West Cornelia Ave.
Chicago 13, Illinois
GRaceland 7-8500

Circle No. 36 on Post Card

Truck provides emergency service

A gas explosion in the fire box of the boiler of Santa Fe Hospital in East Los Angeles knocked the unit out of commission. While calamities never come at the right moment, this one really picked the wrong time. The stand-by boiler was already down for modernization and repairs.

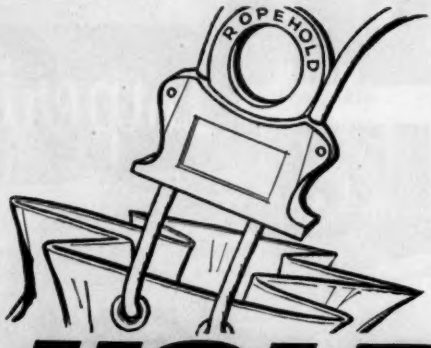
The hospital was in a spot. Linen could not be laundered, instruments could not be autoclaved and the kitchen was screaming for steam to prepare the food. The hospital's general manager, R. R. Brown put in a rush call to his boiler service, Clayton Mfg. Co., for emergency steam service.

A 100 horsepower emergency steam truck was immediately dispatched to the hospital. Within a half hour, the steam lines were hooked up and, just three minutes after firing up, the hospital again had full steam capacity. The emergency steam truck stayed on the job for four days. Then the stand-by boiler was ready for use.

As with other emergency type units, portability is vital. The steam generators, a quarter of the size of ordinary boilers of the same capacity, are light enough to mount on trucks, trailers or skids. Despite the compact size, they are available up to 100 horsepower and for pressures up to 150 psi. The unit is fully automatic, building to a full head of steam in five minutes or less after hook-up.

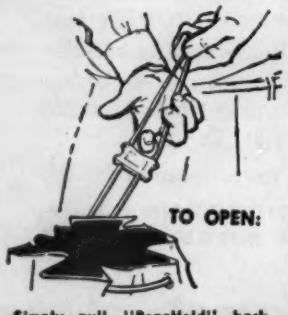
When a job demands more steam capacity, another truck is brought in. Each truck carries enough fuel oil for 24 hours of steam. □

NOW...
a truly modern laundry bag



RopeHOLD
Patent Pending

Slide "RopeHold" forward. It will automatically lock in position, can't come loose.



Simply pull "RopeHold" back using convenient finger ring.

ELIMINATES KNOTS!

makes closing and opening rope-type bags fast and easy—completely eliminates problems of tying or cutting difficult knots.

SAVES PERSONNEL TIME
(no struggles with knots)

REDUCES BAG MAINTENANCE
(no knots to cut)

BAGS LAST LONGER
(fast-drying nylon ropes prevent mildew, rotting)

"RopeHold" is made from a special lightweight nylon formula to withstand moisture, heat and washer agitation. Can't damage tumblers.

Hartford Bags, equipped with "RopeHold", are available in standard sizes and materials or *specially made to fit your needs.*

ROPE and GROMMET • DRAWSTRING • FLAP-TOP

The Hartford Company
DESIGNERS AND MANUFACTURERS OF TEXTILE BAGS, LINERS AND ACCESSORIES
22 Thomas St. · East Hartford, Conn.

Circle No. 11 on Post Card

Dry Bleach

continued from page 14

nating the possibility of "pinholing."

These inherent chemical differences between the dry organic bleaches and the inorganic hypochlorites show up in various manners with respect to fabric safety. In accidental spillage of bleach onto clothes, such as breakage of a carboy of the liquid bleach or dripping of bleach solution onto work, the hypochlorites usually cause holes in the fabric and total loss of garments. This kind of damage can also happen to the clothing worn by the washman and by personnel making up bleach solutions. In contrast, organic bleaches do not ruin fabrics, even when wet fabric is treated directly with a large amount of the powdered product.

Another advantage of the organic chlorine type bleaches is that they contain no calcium, thus eliminating the possibility of lime soap formation and the resulting complications from it.

Among the various organic chlorine type bleaches there appears to be a difference in bleaching ability, with some organic chlorine compounds being more effective than others. Evidence strongly indicates that dry bleaches based on chlorinated cyanuric and hydantoin acids are as effective in bleaching as liquid hypochlorite yet provide a margin of safety mentioned above. It has been reported that organic-type bleaches are very effective for mildew removal.

It is apparent that the dry bleaches have contributed much to the laundry industry. More uniform bleaching due to better stability, elimination of labor for diluting concentrated bleach or dissolving calcium hypochlorite has reduced labor costs. And certainly the safety provided by these dry bleaches to both fabrics and personnel has contributed much to their popularity and increased usage. □

MEMO: **HOSPITAL**

Laundry Managers

FROM: G. A. Braun, Inc.

SUBJECT: Comparative Laundry Costs

Six Months of Operation of a new Midwestern Hospital Laundry*

Salaries	$ 7,972.80
Purchasing Service:	
Nursery	564.00
Miscellaneous	323.53
Supplies	2,468.86
Office Supplies	5.18
Linen	262.36
Minor Equipment Replacement	353.46
Repairs to Equipment	146.50
Miscellaneous	82.62
Depreciation of Equipment	1,149.50
TOTAL COST	13,328.81
Pounds of Laundry Processed	269,545
Cost per pound before depreciation	.0452
Cost per pound after depreciation	.0494
Patient Days	25,308
Pounds per Patient	10.6

(Figures Exclude Utilities and Insurance)

These are the actual cost figures reported by the laundry manager of a new Braun Unit Wash Washer-Extractor-equipped hospital laundry. They include all costs of operation, including beginning supplies purchases, and the figures, as you can see, are most attractive. Moreover, this laundry manager reports an average of 3.37 cents per pound costs for the last two months of operation.

Is this laundry manager pleased with what has been accomplished? Well, comparing his costs, he found that $3.301 had been saved for the hospital in a 9 month period. He checked and found that average cost per patient bed in his area is 64 cents per day, and that his cost is only 43 cents per day.

He had his quality checked, and A.I.L. reports showed tensile strength loss at an amazing 4 percent—but even more amazingly, whiteness retention was reported at 100 percent!

These excellent cost figures and quality records—along with the tremendous production achieved, such as the month of October's 54.020 lbs. in 22 eight hour working days—were accomplished with just one Braun 200 pounder and one Braun 60 pound Washer-Extractor!

Hence this memorandum to the alert Institutional Laundry Manager. Braun Unit Wash equipment can lower your costs and increase the quality of your work. We have the facts and figures to prove it. Qualified representatives in every part of the country will work with you to provide a model laundry operation—one that will pay for itself in space, supplies, labor and water savings.

Over 800 Braun Unit Wash Combination Washer-Extractor now processing over 6½ million pounds per week. Available in the following sizes: 50 lb, 60 lb, 100 lb, 200 lb, 250-275 lb and 375-400 lb.

Get full information. Write today!

G. A. BRAUN, INC.

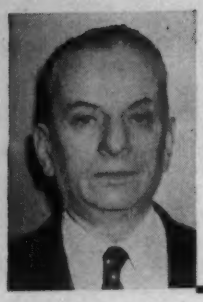
Pioneer in Automation

461 E. Brighton Ave., Syracuse, N. Y.

*Marion General Hospital, Marion, Indiana. Mr. Don Lucas, Laundry Manager, supplied and verified all figures given.

G. A. Braun (Canada) Ltd., 410 Bloor St. East, Toronto, Ontario

Circle No. 4 on Post Card



The Field Report

by Fritz Field, Technical Editor

How do I meet an increased demand for clean linen? Do I expand present facilities and staff; send laundry to commercial plants; buy from linen service; etc.?

Q. I am currently serving my administrative residency in conjunction with the M.A. program in hospital administration at a large university. For my thesis topic I am investigating the subject of how a hospital may meet an increased demand for clean linen. Of the various avenues which can be pursued, I am considering the following in particular:

1. Expand present laundry facilities and personnel.
2. Contract laundry out to a commercial firm.
3. Consolidate area hospital laundries in one centralized building (new building or existing hospital facility).
4. Sufficiently increase present linen inventory.
5. Buy industrial linen service where clean linens would be provided at a fixed rate.

In discussing these possibilities, I am considering the pros and cons of cost, control and service factors.

Any information you can make available to me pertinent to my subject will be greatly appreciated.

Administrative Resident

A. Linen service, like any other service unit in the hospital, has one objective in mind; to provide the ultimate in patient care. In your letter you mention four ways to linens service:

1. the institutional laundry
2. the commercial laundry
3. the centralized laundry
4. linen supply firms

The properly equipped and managed institutional laundry on the hospital's premises is the most convenient, the most dependable and the most economical way of getting linen service. Compared with outside services it gives greater latitude in meeting the peak loads and provides a continuous flow of clean linen to meet all needs. In addition, on-premises plants provide control over washroom formulae for all classifications of work with the least loss in tensile strength.

Own plant for control

It also offers control over the quality of press work and over any article that requires special handling. What hospital administrator has not received services for patient's care from his laundry in emergency? This service, and the special handling, would fall by the wayside if the laundry is farmed out.

The laundry on the premises permits a low inventory of linen. Due to the greater control, there loss of linen is lower. Further, the institutional laundry is generally independent of outside events which may disrupt services.

These conveniences and the dependability of institutional laundries are factors which are self evident. It is the next factor, that of economy, we need to prove. Obviously the existence of the institutional laundry is only fully justified if the total cost of the linen service is below the cost of using outside laundries.

In getting the overall picture, it has to be pointed out that the washing and processing costs are only part of the total expenditure.

The cost picture

Commercial plants cannot process linen cheaper than institutional laundries. The reason for this is that the same "tricks of the trade" used by commercial plants are available and just as effective in an institutional plant. and both the commercial and institutional operations have access to the same equipment and products.

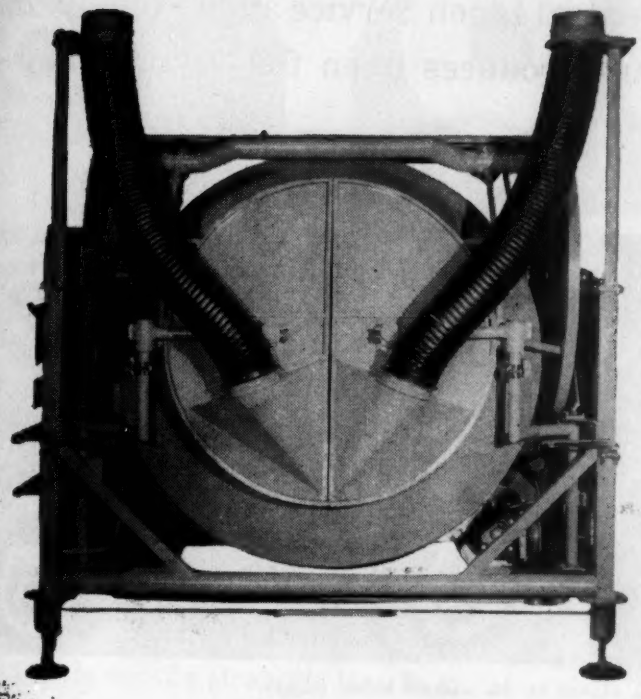
Institutional laundries, especially the large or medium sized facilities, can process work for at least one third less than the commercial plant. This can be done because the costs of collection, delivery, sales promotion and administration are not incurred by the institutional plant.

But even if in a smaller institution the actual processing (washing, etc.) costs are higher than in the mass produced commercial plant, there are many items which have to be added to the commercial laundry's bid in order to compare the total costs of linen services. Soiled linen has to be collected and then classified for counting. Of course, linen leaving the hospital should be counted on its way out and upon

continued on page 55

PURKETT'S *New 25*-ring 72-inch Pre-Drying Conditioning Tumbler

Gives 4 lbs. Moisture Removal per Minute



Provides Maximum Efficiency In Conditioning Operations

Operates with all former loading equipment. 250 lb. capacity loaded and unloaded non-stop. Unloads on opposite side from loading side for proper workflow. Saves transporting of work being processed. Goods are ready to be fed directly through the ironers or to the presses.

Purkett qualified engineers will assist you with your laundry, linen and garment conditioning problems without obligation.

Naturally it's a PURKETT®

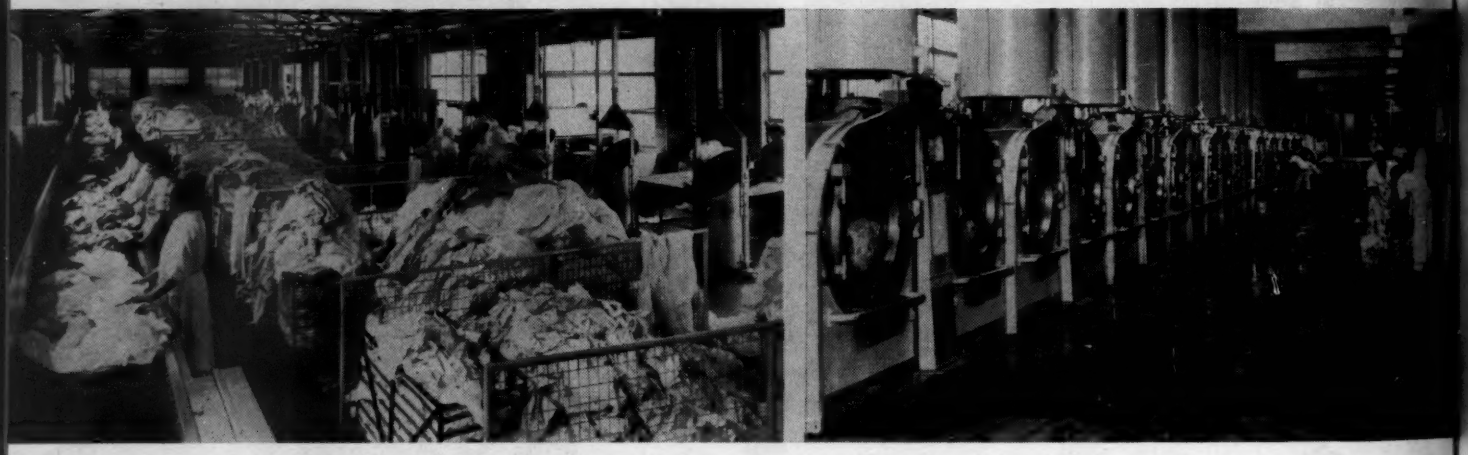
Purkett equipment is sold by ALL Major Laundry Machinery Manufacturers and by

PURKETT MANUFACTURING COMPANY
Joplin, Missouri
DEPENDABLE PRE-DRYING CONDITIONING TUMBLERS

Circle No. 28 on Post Card

Aussies can do 300,000 pounds weekly for six cents a pound

In IL's exclusive interview, V. D. Bernard, LM of the Royal Melbourne Hospital Central Linen Service and Group Laundry, tells how his plant produces linen for 30 institutions



Sorters (left) handle 180 different kinds of linen, which are chuted to the washers below (right).

The idea of a single, centralized laundry handling the work of many institutions and owned by them has been bruited about quite frequently in this country. However, most hospitals and similar establishments wind up with their own laundries or send the work out to commercial firms.

In Melbourne, Australia, though, a central service of this nature has operated successfully for several years. Called the Royal Melbourne Hospital Central Linen Service and Group Laundry, it currently services 30 separate institutions. The manager of the service, V. D. Bernard, was in this country recently on a combined business and pleasure trip, and we sat down with him and had a long talk about various aspects of this service with the idea of seeing how feasible it would be in this country. The following is a report of the interview:

For safe, economical bleaching . . .

"HALOX" YOUR LINENS

Here's what HALOX® — the original organic dry bleach — does:

- Holds tensile-strength loss to a minimum
- Prolongs fabric life — safe on all white-cotton fabrics
- Prevents pinholing and iron discoloration
- Improves whiteness
- Reclaims mildewed linen
- Ties up iron in water supply
- Strips soap
- Made only by J. B. Ford Division

Unlike hypochlorite bleaches, Wyandotte HALOX — the original organic bleach — keeps tensile-strength loss down. That's because of the built-in safety feature of HALOX: chlorine is released a little at a time, as it is being used.

HALOX is simple to use, safe to handle; you add it dry to the wheel. No danger of spilling and causing damage; no need to worry about misusing it. And as for economy, consider this: just 100 lbs. of HALOX will bleach more than 80,000 lbs. of white work! You'll agree, that's pretty impressive tonnage!

You owe it to yourself to investigate HALOX for your bleaching needs. Get all the facts from your Wyandotte jobber or representative today. *Wyandotte Chemicals Corporation, Wyandotte, Michigan. Also Los Nietos, California and Atlanta, Georgia. Offices in principal cities.*

Wyandotte CHEMICALS

J. B. FORD DIVISION

YOUR WYANDOTTE REPRESENTATIVE IS A LAUNDRY SPECIALIST—CALL HIM TODAY!

Circle No. 42 on Post Card

Q. Mr. Bernard, your operation is actually a combined linen rental and laundry service. Is that correct?
A. Yes. The Royal Melbourne Hospital Central Linen Service and Group Laundry supplies linen at a cost of one shilling per pound for clean, dry linen. This covers rental, delivery, pickup, laundering and depreciation. For this reason, member hospitals do not have to maintain any linen stocks of their own.

Q. Would you say you handle linens more cheaply than the individual hospital could?
A. I can only answer that by saying that C.L.S. (our abbreviation for the service) began with two or three hospitals and we now have 30.

Q. You say this shilling charge covers certain costs. Are you non-profit?
A. Yes. We are in effect owned by the participating members. This one shilling charge, however, is slightly above cost; but at the end of the year any extra money is returned to the member institutions. During the last few years, we refunded 10 per cent of what we took in.

Q. Let's say I'm a hospital that does not now use your service, but is thinking seriously of it. Can I set my own linen quota?
A. Yes. The individual hospital decides how much linen it needs. That linen is supplied in full without question.

Q. Can I get exactly the kind of linen I want? Say I'm using a certain size sheet, a certain type of patient gown—will you supply me these items to my specifications?
A. No, we will not. We have standardized our linen by material, size and shape. A committee representing the participating institutions sets and maintains these standards.

Q. And hasn't this proven a drawback?
A. On the contrary. It has enabled us to keep costs low and do a better job of processing. With standardized linen, you can standardize various manufacturing and processing operations.

Q. But haven't hospitals that wanted to join been reluctant to do so because of standardization?
A. Again, I can only point to our growth to refute this. Let me add this. If a hospital wants a certain type or style on a linen item that we do not supply, it is welcome to keep its own stock of this particular item on hand. We will laundry the item for it.

Q. At what charge?
A. At the same charge as for our regular linen. Consequently it does not pay the hospital to continue to use this item. Normally it soon goes out of circulation. Our operation has proven, however, that sheets, gowns, towels, binders, covers, etc., can successfully be standardized to cover every phrase of hospital linen usage and requirement. Now, you must understand, we provide 10 different sizes of sheets, 11 types of towels, 16 types of gowns and other items in like numerical proportion. But we have only one type for one purpose. An adult sheet is always one size, style and material. A cot sheet is always one size, style and material.

However there is nothing to prevent a hospital utilizing a linen item for a purpose other than specified and this is done in a number of instances by individual hospitals. Usage in this manner presents no problem to the Service.

Q. And an institution that decides to join C.L.S. knows this?
A. It certainly does.

Q. Can any hospital join?
A. No. Only government subsidized hospitals are eligible, not private hospitals.

Q. When a hospital does decide to join up, what happens to the linen it has on hand?
A. We buy it at 50 per cent of replacement value.

Flatwork section (left) finishes linen and conveys it to linen room (right) for subsequent distribution.

INTRODUCING . . .

Troy® WX combination washers-extractors

available in 3 capacities
100 Lbs. 200 Lbs. 375 Lbs.

All these new combinations... and only Troy combos... offer you all these design features:

- **NEW METHOD** of extraction to reduce vibration and wear on moving parts.
- **CHART TYPE CONTROL** which automatically puts machine through *complete* WASH-EXTRACT cycle in less time than the usual washing cycle alone.
- **SHAKEOUT PERIOD** at the end of cycles to further reduce moisture content and cool loads so they can be handled immediately.
- **RIBBED, STAINLESS-STEEL CYLINDER** — divided into two compartments on 100 lb. model and into three compartments on larger units to assure proper load balance that extends machine life.
- **FIVE SAFETY DEVICES,** more than any other combination, to prevent accidents when the machine is operating and to automatically stop the machine if it is unevenly loaded.

MAIL COUPON FOR FREE FACTS

Troy® **LAUNDRY MACHINERY**
Division of
American Machine and Metals, Inc.
EAST MOLINE, ILLINOIS
"World's oldest builders of power laundry equipment"

TROY LAUNDRY MACHINERY, Dept. IL-559
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Please send me bulletin describing the new TROY WX Combinations.

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ATTENTION MR. _____

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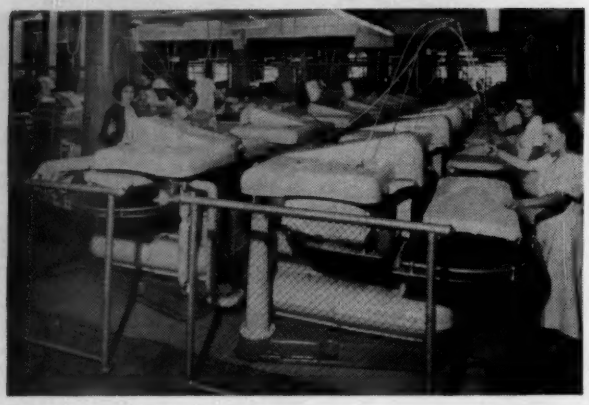
Battery of 21 rotary presses and 14 three-press units finish uniforms and the drycleaned items.



This is most generous, I assure you. The institution generally knows around a year ahead of time that it is going to join up so it does not purchase linen during the interim.

Q. Could you tell me briefly what services exactly you supply member hospitals?
A. I'd be happy to.

1. We maintain adequate linen reserves of each and every type of approved classification required by the participating institutions. This includes some 180 items. Linen items are added, deleted or amended if required by new medical techniques, provided approval for such an item is given by the representative (Standards) committee.

2. We deliver clean linens and collect soiled linens. This includes all white coats and uniforms provided by the institutions to their staffs and all personal linen of such members of the staff as are approved by the hospital. We supply canvas bags for soiled linens and deliver clean linen in trolleys. For personal linen we supply individual fiber boxes together with bags for soiled linens.

3. We also collect, launder and return items used by the institution but not included in our list of standard items.

4. We dryclean a limited number of items that require this type of processing.

5. We supply a weekly report to the management of the individual members that tells in detail exactly how much and what types of linen we processed for them together with the total cost for the week.

Q. In line with this, how often do you pick up and deliver?
A. Once a day for most hospitals. For the larger hospitals, however, we come more often. Our largest institution, for instance, the Royal Melbourne, has 650 beds. We couldn't possibly keep up with deliveries and pickups in one trip.

Q. You don't pick up and deliver personal linen this frequently, though, do you?
A. No. We pick up once a week and make a return delivery within 48 hours.

Q. On the average, how much linen do you supply per bed?
A. We supply 9.76 pounds of linen per occupied bed, per day. Over the year, if all types of hospitals are grouped together, usage varies from 13 to 14 pounds for an acute general hospital, to four pounds for convalescent types of hospitals.

Q. And the cost per pound of this linen—just for processing?
A. Six pence Australian. (Including a provision of 10 per cent for depreciation of equipment.) This is approximately equal to six cents in your currency. However, we hope to materially reduce this cost, since at present the laundry is not mechanized as is common in laundries throughout the United States. We expect to rectify this in the near future—and this is one of the main purposes of my having taken this trip abroad.

Q. And how many pounds do you process a week?
A. At present, approximately 300,000 pounds, but this is steadily rising as our hospitals expand and add beds.

Q. Let me ask you this. Do you have a problem with linen losses?
A. Not nearly as much as you might expect and not as much as the individual hospitals had before they took on our service. We have a 4½ per cent loss of linen in capital value over and above linen we must replace because it is too worn for further use. Of this 4½ per cent, 1½ per cent is what we term "expendable." In this category we include the two or three diapers the nurse will send home with a newborn baby or the linen going home in an ambulance with a patient, linen which never finds its way back to the hospital. Now no nurse is supposed to provide any patient with linen, nor is an ambulance patient supposed to retain linen provided him for

continued on page 54

Using factory methods and machinery, C.L.S. manufactures many of the articles it distributes. In addition, the mending section maintains all of the linen used by the member hospitals.

Coast to Coast

continued from page 10

dry Managers in lieu of a May meeting. The April meeting featured two speakers. Bill Martin of Speare Co., Chicago, spoke about tumbled work; Balfour Augst, of Armour & Co., Chicago, told the group "How effective is the washing on Staph Aureaus."

Californian Confab

A demonstration of the advantages of sodium silicate for institutional laundries and a report on the effect of alkalis on tensil strength were recently given to some 30 members of the Association of Institutional Laundry Managers of Northern California. The demonstration was given by Dr. T. K. Cleveland, vice president for research and development at Philadelphia Quartz Company of California at the company's plant in Berkley.

Dr. Cleveland shows how alkalis affect cloth's tensile strength.

The active Northern California association also met in February to learn more about dry bleaches from Wyandotte Chemical Corp. salesman, Fred Scurlock.

MILMA Sees Film

"Tails You Win," a Proctor and Gamble colored film was shown to the Metropolitan Institutional Laundry Managers Association at its April meeting in New York City's Bellevue Hospital. J. Jameson represented the company.

In a bulletin to the membership, Metropolitan's president, Rubin Braun said, "It is now evident to all that outsiders are attempting to close institutional laundries, governmental or otherwise. This makes it mandatory for the preservation of our plants that our National Association supply forceful leadership and offer a well-planned program of future activities." With this in mind, the April meeting was devoted to preparing the program of action that MILMA presented at the national conference.

Fiddle To Speak

Len Fiddle, assistant publisher of INSTITUTIONAL LAUNDRY mag-

ANNOUNCING!
THE ALL NEW 24-INCH GASWAY 3-D FLATWORK IRONER

THE IRONER IS THE HEART OF THE LAUNDRY

PACKED WITH PLUS VALUES

Skewed Roll Principle—Stretches out flatwork to provide "hand ironing action".

Build-up Kit—Standard ironer can be converted to higher capacity—helps you keep pace with demand.

Micrometer Heat Control—Most accurate ironer heat control available. Cuts time lag to promote better flatwork quality.

Better Contact with heated roll gives top capacity and smoother finished ironing.

. . . and the Gasway 3-D Ironer is faster, more reliable and produces the smoothest flatwork possible.

Here is the ironer that will make your institutional laundry tick. When laundry people see for themselves what 3-D ironing can do for them, they're sold on Gasway.

Micrometer Heat Control, exclusive with Gasway, gives greater accuracy, instantaneous response.

Skewed Roll Principle gives perfect sheet finishing, because skewed rolls smooth out the work like hand ironing does.

Build-up Kits, another Gasway exclusive, allows you to increase capacity along with demand—without having to invest in a new ironer.

Yes, the all-new Gasway 3-D ironer is the best bet for the hospital, hotel or motel laundry.

NEW BULLETIN AVAILABLE WRITE TODAY!
All the features, construction details, production rates, and specifications. Get your copy today.

Ask your dealer for all the details today!

GASWAY CORPORATION
6463 North Ravenswood Avenue • Chicago 26, Illinois

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azine will address the May meeting of the Metropolitan Institional Laundry Managers Association. He will speak about the importance of laundry managers' associations. The meeting, set for May 20, will be held in New York City's Bellevue Hospital.

Western Convention

The Hotel Utah in Salt Lake City was the site of the 1959 Western Hospital Convention on May 7.

NAILM Is Growing

Five laundry managers in 1935 met in Washington, D. C. to form the National Association of Institutional Laundry Managers. Today the list of LMs belonging NAILM has grown into the hundreds. According to the Nail'm News, the three leading states for LM members and allied tradesmen are California, New York and Pennsylvania. New York City's association, the Metropolitan Institutional Laundry Managers Association, leads the nation as far as the number of members. John Mayo, LM of Memorial Center Hospital in New York City, Metropolitan's membership chairman, says his group has 86 members.

Emergency Aid

The following resolution, passed by an overwhelming majority of the members of the Metropolitan Institutional Laundry Managers Association, speaks for itself: Whereas: This Association believes that an extreme emergency can bring about a dangerous deficiency in linen service for patient care in a member's hospital, and

Whereas: In such emergencies, the volunteering of physical assistance, personally, by fellow Laundry Managers could help produce such emergency supply of linen, Be it resolved, that:

The members of this Association shall offer their personal assistance to help process linen for a member in the event of an emergency, wherein such member cannot provide linen service for patient care, and that:

Such assistance shall be first approved by the administrators of the members involved.

New Plant

Don Maloney, LM of the new $80,000 St. James Hospital (Chicago Heights, Ill.) laundry put his plant into operation for the first time on April 9. He will be able to turn out about 13 tons a week, in addition, his plant will handle more than 200,000 diapers.

Maloney says that in terms of the number of patients treated multiplied by the minimum cost of washing and drying one pound of laundry, hospital plants in the U.S. spend close to $700 billion a year.

All department heads of the

It's New! It's from Staley's!

It's STA-FLEX

The New, All-Purpose, Non-Congealing 5-Oz. Starch That Starches Everything Better

Looking for the ideal starch? Then look no more. New Sta-Flex is here!

Laundrymen who have put new, all-purpose Sta-Flex through test after test describe it as well-nigh perfect for everything that's starchable—from whites to brightest prints.

For they discovered that Sta-Flex penetrates quickly, evenly, thoroughly. Gives a smooth, flexible finish that eliminates excessive stiffness, scratching and irritation. Forms a clear, transparent film that doesn't mask color.

They discovered, too, that new non-congealing Sta-Flex gives minimum build-up on the presses. Insures an even, fluid, scum-free consistency until used. Disperses easily and uniformly in the wheel without splotching. And most important, from a production standpoint, Sta-Flex reduces clean-up time.

Enjoy the definite in-plant advantages that versatile, new Sta-Flex can give you. Get all the facts. See your Staley Representative for complete information, or write to: A. E. Staley Mfg. Co., Decatur, Illinois.

*Actual photo of Sta-Flex starch cooked at 5 ounces per gallon water, cooked 10 minutes at 190° F and held 24 hours. This remarkable viscosity stability is unduplicated in regular 5-ounce laundry starches . . . means reduced set-back for you.

NEW **STA-FLEX**

A. E. Staley Mfg. Co., Decatur, Illinois

Branch Offices: Atlanta • Boston • Chicago • Cleveland • Kansas City
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hospital saw a film called "How To Train." Produced by Standard Brands, Inc., the film outlined a four-step procedure which enables the trainer and trainee to function at top efficiency.

Step I: Prepare the employee for instruction. Put him at ease. Explain the job and its importance. Get him interested in learning the job.

Step II: Present the job. Follow your breakdown. Explain and demonstrate one step at a time. Tell why and how. Stress key points. Instruct clearly and patiently. Give everything you want back, but no more.

Step III: Tryout performance. Have him do the job. Tell him why and how and again stress key points. Correct errors and omissions as he makes them. Encourage him. Get back everything you gave him in Step II. Continue until you knew he knows.

Step IV: Follow through. Put him on his own. Encourage questions. Check frequently. Let him know how he is doing.

The film, the first in a series of productions by Standard Brands, Inc., is part of its Manpower Development Program and is offered to interested groups.

Token of Appreciation

Four letters, H-E-A-L, grace the plaque presented by LM Henry Thoms of Irvington General Hospital, Irvington, New Jersey, to Miss Elizabeth Schilling, executive superintendent. The plaque was a token of the friendship and hospitality displayed by all service department heads.

Officers Elected

Leonard E. Breitenstein, LM of U.S. Public Health Service Hospital in San Francisco, was elected president of the Northern California association. John Dearing, Sequoia Hospital Redwood City, was named v.p.; Mrs. Anna Krug, Franklin Hospital, became secretary; and Robert E. Jorgensen was elected treasurer. Mrs. Krug and Bob Jorgensen are both from San Francisco. □

New NAILM Officers

The National Association of Institutional Laundry Managers elected the following members officers of the group:

Robert Dobson, Director of Laundries, Department of Hospitals, New York City, President of NAILM.

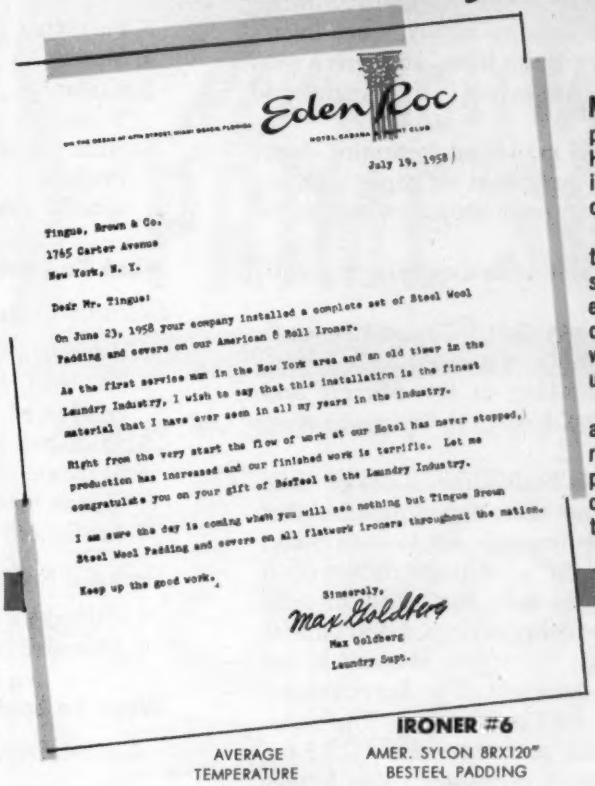
Rolland Whitlock, LM, University of Oklahoma Medical Center, Oklahoma City, First Vice President.

Duane E. Young, LM, St. Mary's Hospital, Minneapolis, Minn. Second Vice President.

William Eddy, LM, Statler Hilton Hotel, Dallas, Treasurer.

Ted Hugo, LM, St. Luke's Hospital, St. Louis, Secretary.

"Let me congratulate your company on your gift of *BesTeel* to the laundry industry."



Eden Roc
HOTEL CABANA & TENNIS CLUB

July 19, 1958

Tingue, Brown & Co.
1765 Carter Avenue
New York, N. Y.

Dear Mr. Tingue:

On June 23, 1958 your company installed a complete set of Steel Wool Padding and covers on our American 8 Roll Ironer.

As the first service man in the New York area and an old timer in the Laundry Industry, I wish to say that this installation is the finest material that I have ever seen in all my years in the industry.

Right from the very start the flow of work at our Hotel has never stopped. Production has increased and our finished work is terrific. Let me congratulate you on your gift of BesTeel to the Laundry Industry.

I am sure the day is coming when you will see nothing but Tingue Brown Steel Wool Padding and covers on all flatwork ironers throughout the nation.

Keep up the good work.

Sincerely,
Max Goldberg
Max Goldberg
Laundry Supt.

Mr. Max Goldberg, Laundry Superintendent at the Eden Roc Hotel, Miami Beach, Florida, in an unsolicited letter, points out the virtues of BesTeel.

This is only one of many top producers who have installed BesTeel on their ironers and found it to be the cleanest, most durable flatwork ironer-roll dressing ever used.

The following chart shows actual comparative Pyrometer readings on two ironers in a plant in the New York area—one using BesTeel padding and the other asbestos bat padding.

ACTUAL PYROMETER READINGS ON TWO IRONS IN A PLANT IN THE NEW YORK AREA:

AVERAGE TEMPERATURE	IRONER #6 AMER. SYLON 8RX120" BESTEEL PADDING	IRONER #2 AMER. STANDARD 8RX120" ASBESTOS BAT PADDING
ON CHESTS	308°	309°
ON ROLLS	278°	233°
LOSS IN ROLL TEMPERATURE	30°	76°

Conclusion: Rolls of Ironer #6 with BESTEEL are running an average 46° HOTTER.

other Tingue, Brown products
LAUNDRY NETS
Woven—Knitted Nylon, Dacron, Cotton
IRONER & PRESS DRESSINGS
Asbestos, Dacron, Nylon, Cotton, Wool & Steel Wool
IRONER APRONS
Finest finish, Guaranteed lowest cost
GENERAL
Baskets & Liners
Ribbons & Tapes — Iron Lubricants
Extractor Covers — Flexible Steam Hose for Presses — Marking Flags
Rubber Floor Mats

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Los Angeles 21, Cal.
Richmond 9-6023

1227 Wabash Avenue
Chicago 5, Illinois
HArrison 7-0083

507 Bishop St. N. W.
Atlanta 13, Ga.
TRinity 4-3864

Circle No. 38 on Post Card

Australia

continued from page 50

his homecoming. But, practically speaking, we can't prevent this. The remaining 3 per cent of linen loss is theft. We feel we cannot lower this figure.

Q. How long do you calculate your linen lasts?

A. Five years. We allow 20 per cent each year for linen depreciation. This provides us ample funds to buy in quantity when the market is favorable. We have an excellent linen reserve bought at a low cost by agents established throughout the world.

Q. Again, from the standpoint of a hospital thinking of joining, is there any prior processing at all that it must undertake before sending linens on to you? For instance, if there is feces or other matter on linen, must it be rinsed off?

A. No. All that must be done is to put such linen in special "foul" linen bags we supply. Such linen is regarded by us as extra-dirty and given an hour long formula that includes 10 minutes of boiling.

Q. In other words, the individual institution does not have to keep any personnel on hand, such as markers, weighers, etc., once they turn the processing over to you?

A. That is correct. We handle every single necessary operation.

Q. Now, would you say that an operation such as C.L.S. is possible only in a centralized metropolitan area? I'm thinking of the delivery and pick-up problems you'd face if hospitals were widely scattered.

A. Well, we operate in Melbourne, a city of some 1,600,000 people, and there's no question that the closer the various hospitals are to each other, the lower the costs. At what point, however, it would prove uneconomical to use a central service, considering all the other savings, I don't know. Actually with modern transport, distance is not considered a serious problem. The Service operates normally within a 15 mile radius. The transport cost over the past year represented 2.35 per cent of the total cost of operation. You have a good many metropolitan areas in the States that I believe could benefit from a central, non-profit, member-owned laundry such as we have.

Q. You mentioned in your answer "all the other savings" to be realized from a central service. Can you enumerate some of these?

A. We purchase linen in bulk at a cheaper rate than an individual plant can. We save considerably on equipment and personnel in a centralized operation, particularly as small plants cannot justify costly automatic equipment. We save enormously on space and utilities. We have a single bookkeeping department, not 30. We manufacture much of our own linen, as well as maintaining it, utilizing factory methods and equipment.

In conclusion our hospital authorities in Melbourne, after experiencing six years of this type of centralized service, feel it is the correct answer to the handling of institutional linen. Further organizations of this type are now under active consideration by Australian hospital authorities. □

Your Buying Guide

continued from page 28

4. Non-transparent material.
5. Serge Stitched.

What To Look For In Smocks, Frocks, Shirts

Optional Features

1. Length . . . Knee, hip, or ankle.
2. Opening . . . Side, front, or back.
3. Fastening . . . Buttons, grippers, or zipper.
4. Sleeves . . . Long, short, or elbow-length.
5. Collar . . . Convertible Military, lapel or V-neck.
6. Back . . . belted or straight.
7. Pockets . . . Number and location to suit specific job and individual preference.

What To Look For In Trousers

Essential Features

1. Tape reinforcement in crotch.
2. At least four pockets, firmly attached and reinforced.
3. Wide belt loops.
4. Separate sanforized waist banding for consistent measurements.
5. Sanforized materials.

Optional Features

1. Cuffed for neat appearance.
2. Uncuffed for easy alteration.

What To Look For In Women's Utility Dresses

Essential Features

1. Skirt full enough for freedom of movement, not so full as to get in the way.
2. Simple in design, so flatwork ironing will be sufficient.
3. At least one deep pocket in skirt.

Optional Features

1. Reversible front for double wear between launderings.
2. Coat style, fastening with durable buttons.
3. Slipover style with plain untrimmed front.
4. Back closing, fastening with firmly attached buttons at neckline and waistline.
5. Tunnel belt, attached to dress with bar-tacking, adjustable.

continued on page 60

The Field Report *continued from page 44*

its return. The returned linen has to be sorted, counted and distributed.

Seamstresses will still be needed. It is conceivable their work load would be increased. Personal bundles will still have to be marked, sorted and checked. Employees will still be needed in the uniform room. The institution will have to keep workers to make up sterile bundles for the operating rooms. They will be needed to receive, mark and store new linen. And there is certainly some need for a supervisor for all this help.

In any event, it is reasonable to assume that the items mentioned added to the commercial bid will decide in favor of the institutional laundry as the most economical procedure.

Central plant operation

A centralized laundry that combines the work of several institutions will have lower processing costs than an individual plant. The centralized plant with a fully automatic washroom, large sized tumblers and eight-roll ironers with feeding, stacking and folding devices will lower the direct labor cost. But, the transportation and many of the same costs incurred by the commercial plants, may more than cancel the original savings.

An interesting set-up is the Royal Melbourne Hospital Central Linen Service and Group Laundry (see page 46). This service has been departmentalized into four sections: Central Linen Service, Laundry, Mending and Manufacturing and Transportation. In practice, however, participating institutions are concerned only with the Central Linen Service section. The other three sections are subsidiary.

Most institutional laundries handle more than 200 different items. A commercial linen supply company will not be too fond of supplying all these items. The initial bid from linen suppliers for sheeting and toweling may be low, but it seems safe to assume that the final bill will be higher than the institution's laundry expenditure. This is due to the transportation, sales promotion and administrative costs being tacked on.

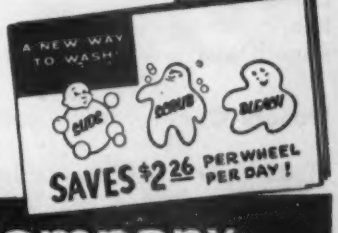
A final answer to the question of how a hospital may meet an increased demand for clean, safe linen will require a careful survey of the individual situation. The sufficient increase of the present linen inventory, which you mentioned, is only effective if the capacity of the laundry is able to cope with the increased volume of linen. If this is the case, it is, of course, the easiest solution because it will lower the present processing costs of the institution. □

NEW ACTIVATED
PRIME SOHP
WITH
More Washing Power per Pound!

That's because new activated PRIME SOHP combines FOUR great washing features!

1. Perfect balance of Special Soaps and high potency Alkali (OH)
2. New miracle brighteners
3. New PRIME Color Set
4. Safe Powerful Stain Solvents

Find out how you can save up to $564.00 per year on each wheel with this "New Way To Wash." Write today for FREE 16-page illustrated booklet.



Beach Soap Company
131st Year of Continuous Progress in Manufacturing Fine Laundry Products

15 MILL STREET, LAWRENCE, MASSACHUSETTS
Canadian Licensee, H. L. BLACHFORD, LTD., Montreal, P.Q.

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CONSERVE YOUR LINENS

mark them inexpensively with Applegate's Indelible Ink

Heat permanizes your impression for the life of the cloth. *XANNO* Indelible Ink is LONG LASTING, no heat required.

LINEN MARKERS

Hand, Foot or Motor Power.

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METAL Dies

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Pens

Send for free Impression Slip

APPLEGATE CHEMICAL COMPANY

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To the attention of Laundry Managers

REBUILD *your* FLATWORK IRONER

(Without disrupting your work schedule)

SPECIALIZED SERVICE IN CHEST AND CYLINDER IRONERS

THERE ARE MANY MORE YEARS OF GOOD SERVICE IN YOUR OLD IRONER

MODERNIZE — BY ELIMINATING THE GEARS FOR CHAIN AND SPROCKETS

Padding stays softer longer, improves quality, increases production, prolongs bearing life, smooth and quiet operation on all speeds.

Ironers Converted to Return Type

35 Years' Experience in Ironers

E. & H. KEHLSTROM

800 Broad St., St. Joseph, Mich.
Phone YU. 3-4240

Circle No. 15 on Post Card

Mississippi State University

continued from page 18

this method has resulted in a production jump from 80 pairs of pants per operator per eight-hour day to 230 pairs.

Another major time saver has been installed in the drycleaning room. Before Tullos' five year modernizing plan went into effect, his drycleaning room consisted of one 36 by 54 washer and one 30 by 48 washer, a 48 inch extractor with an extractor rinse, three 36 by 30 tumblers, and a 5,000 gallon filter.

Last year, the LM completely revamped this section, using new equipment that was altered by the company to fit his own specifications. Since this change he has saved four employees and has cut his work cycle from 12 to 15 actual hours of operation down to six hours, and has finished many more pounds of cleaning.

This new equipment consists of two 100-pound combination washer-extractors equipped with a 1,000 gallon solvent tank, a three per cent detergent concentration, a three-inch high velocity pump which brings the solvent from the tank to a 10,000 gallon filter. After the solvent gets to the filter, it goes to a heat exchanger which has a five-ton refrigerator unit as well as a steam coil for heating. The solvent flows from this back into the tank.

"The same is true for the rinse except for a 5,000 gallon filter and a three-ton refrigerator unit for cooling," Tullos says. "All this equipment is located in a room that is adjacent to, and lower than the floor where the washer is located.

"These units are completely automatic in that they maintain a constant temperature of 78 to 80 degrees and give 100 changes of solvent per hour through the washer. They fill, dump, extract, refill with rinse solvent, dump, extract and then stop and signal the operator. They can operate together or individually."

Between the two washers, Tullos has equipped a panel with dials and charts that tell the temperature of solvents, filter pressure on each filter, amount of solvent in each tank, and a gauge to indicate still operation. The conductivity control is also located on this panel.

Factors for success

There are other factors, small as well as big, which help account for the eye-opening success of this foresighted LM.

- Because he believes that a happy employee is a hard working employee, he has added an up-to-date ventilation system in the plant, and plans to go to evaporative cooling in the near future. He has also provided a refreshment counter as a gathering place during the morning and afternoon work breaks.
- Two full time mechanics are on duty eight hours a day keeping equipment in top-flight operating condition. Each item is carefully checked at least once a week and is operated at the manufacturer's specifications. In the event of a breakdown, these men are on the job in seconds and Tullos loses no time waiting for the equipment to be in operation again.
- During the slack summer season, each piece of equipment is dismantled and all worn parts are replaced with new ones so the equipment will be ready to operate in its best condition when the fall semester begins.
- And to keep customers happy, Tullos has not only speeded up production, but has provided fully automatic entrance and exit doors at the front of the building. He is quick to tell you that he has the only automatic doors on the campus of the university, and the only ones in any institutional laundry in the state.

If progress is the criterion of a good laundry manager, then R. B. Tullos has to be considered one of the best—by any standards. □

WILL SHE LIVE TO GROW UP?

This child has leukemia—one of the most tragic forms of cancer. Only research is keeping her alive.

Ten years ago, children stricken with leukemia—cancer of the blood-forming tissues—had only a few weeks or a few months of life. Today, many of these children have had wonderful, precious months, even years, added to their lives, thanks to dramatic discoveries in the research laboratories.

Until science finds the means to *save* them, however, they live on borrowed time. The American Cancer Society's research program includes $1,500,000 annually for research related to leukemia. Millions of dollars more are needed to conquer this grim disease—a disease which kills 2,000 children each year, and which is taking an increasingly larger toll of the lives of adult men and women.

You can help research find the answers that will save these lives. Give generously to help support the American Cancer Society's intensive research assault against leukemia and all other forms of cancer.

AMERICAN CANCER SOCIETY

STOP

COSTLY MILDEW

with

MIL-CIDE

Mil-Cide can be applied in any standard commercial laundry equipment. No additional handling or washing operation required. Eliminates the problem of mildew forming between pick-ups. Works on all types of fabrics. Contains a fluorescent brightener to give added "Sparkle." Available in 55 and 16 gal. drums.

THE SPEARE CO.

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Looking for **NEW**

IDEAS? Read

IL every issue!

Report from Tulsa

Edwin T. Cullen (left) NAILM's outgoing president, congratulates the newly elected officers. Pictured with Cullen (l to r) are president-elect Robert Dobson, second vice president Duane Young, treasurer William Eddy and secretary Ted Hugo.

Highly competitive elections, resolutions and informative talks keynoted one of the best attended conferences in the history of the National Association of Institutional Laundry Managers, held last month in Tulsa, Okla.

In addition to passing the recommended changes to NAILM's constitution, the group resolved to campaign against the closing of laundries in Veteran Administration Hospitals. NAILM pledged to "use all the powers and resources of this organization to correct the unfair and costly practice, to restore (laundries) to the V.A. Hospitals already affected by this adverse action . . . "

This V.A. Hospital situation played an important part in the elections, one delegate noted. The officers, all of whom were nominated from the floor rather than by the Nominating Committee, were voted in primarily because they might be able to do something about the V.A. laundry problem, this delegate revealed to INSTITUTIONAL LAUNDRY. □

PROGRESS IS THE PRODUCT OF MANY MEN

JOIN NAILM

I wish to become a member of my local association or become a member-at-large if there is no local group in my vicinity. I understand that membership dues are $3 per year, plus $1 initial fee. Please send details.

Duane Young
NAILM
Membership Chairman
St. Mary's Hospital
Minneapolis, Minn.
Dept. IL-45

MAIL IT TODAY

Name _____

Institution _____

Address _____

City _____ Zone ____ State ____

Dual Plant

continued from page 34

bundle. This covers the cost of handling. Students' personal laundry is not accepted by the university plant.

During the summer months, when most students are away on vacation, Callnin's operation continues to go full blast. There are 20,000 blankets that have to be cleaned in time for the fall semester. These blankets are processed through a four-draw blanket unit. Two men are occupied six days a week for more than three months processing 200 blankets a day.

The 75 per cent wool-25 per cent cotton blankets are washed in a 40 by 54 inch washer at between 90 and 100 degrees. The washer, which is run slowly, is filled to a 14-inch water level. A low titer soap with heaving suds is used. After two five-minute suds, the machine is stopped for a rinse.

U. of Mich. has self-supporting plant

The University of Michigan laundry is a self-supporting unit. It is part of the university's service enterprises, which are under the management of Francis Shiel, Business Manager of Service Enterprises for the university.

Shiel says that "not only must the laundry manager in a university laundry be able to run his plant efficiently, but he must be able to handle all kinds of special problems when his customers are university and hospital administrators, faculty members, dieticians, nurses and many others in the university family. He cannot be just an ordinary LM—he has to be someone special."

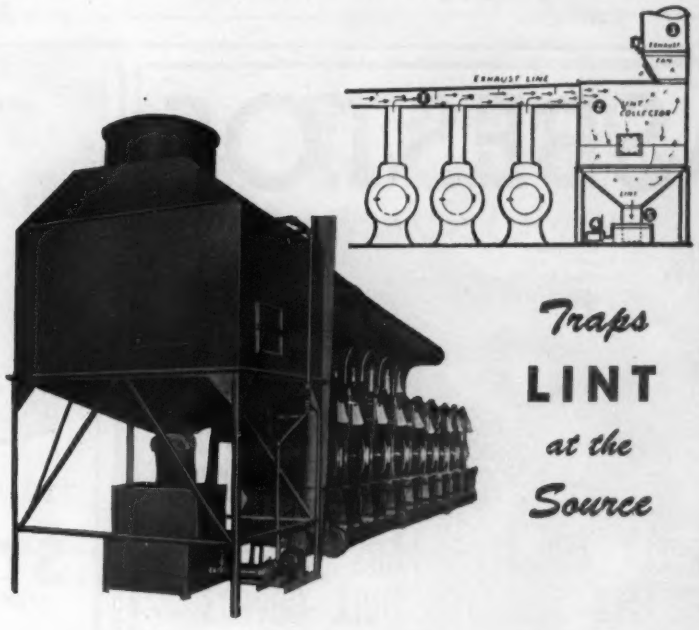
Callnin, the University LM for 20 years, fills these qualifications to a T. As a matter of fact, his operation is so well run he occasionally finds time to lecture a college class on the value of time and motion study. □

The Michigan University laundry is located in this two story building.

GET UP TO 30% MORE PRODUCTION—
REDUCE WASTE MATERIAL HANDLING TIME
And IMPROVE PLANT HOUSEKEEPING with the

E/C LINT COLLECTOR!

Here is what Federal, State, County, Institutional and Industrial Laundry Users report about the E/C Collector: *"Excellent for removal of lint . . . ease of keeping plant clean of great value . . . Unbeatable . . . Very efficient . . . Speeds our production about 30%."*



Traps **LINT** *at the Source*

You get 100% Lint Trapping when you have the E/C Lint Collector; reduce the cost of plant cleaning and "downtime" sharply. The only system that operates with no back pressure; requires no dampers in the line. Boosts tumbler output and profit up to 30%. Eliminates fire hazard. Self liquidating. For complete information, write direct to Eastern Cyclone.

EASTERN CYCLONE

Dep't 3, 876 Van Houten Ave., Clifton, New Jersey

Circle No. 48 on Post Card

Your Buying Guide

continued from page 54

6. Set-in belt, eliminates belt loss.
7. Separate belt, can be removed when apron is worn.
8. Convertible collar, can be worn open or closed.
9. Reinforced yoke to strengthen garment.
10. Waistline pleats for extra fullness.
11. Cap sleeves with underarm gusset.

What To Look For In Garments Of Synthetic Or Blending Fabrics

1. Super-safety serge stitching to prevent seams opening up.
2. Opaque weave-non-transparent.
3. Underarm eyelets for ventilation.
4. Trim firmly attached, of synthetic fabric, to last as long as the garment. □

This article is based on a speech by Stephen Abelov of Angelica Uniform Co., to the Institutional Laundry Managers of Southern California.

Genius at work

Processing Patient Gowns

Here is an easy and economical way of handling patient gowns. First prepare the gowns for the feeders. We use one girl who can lay out more than 200 gowns in less than 20 minutes. The shaker takes the gown at points 1 and 4 and lays it down on the edge of the table (figure 1). The sleeves are then turned right side out. When

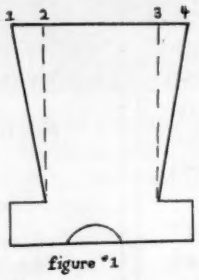


figure #1

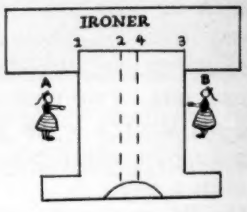
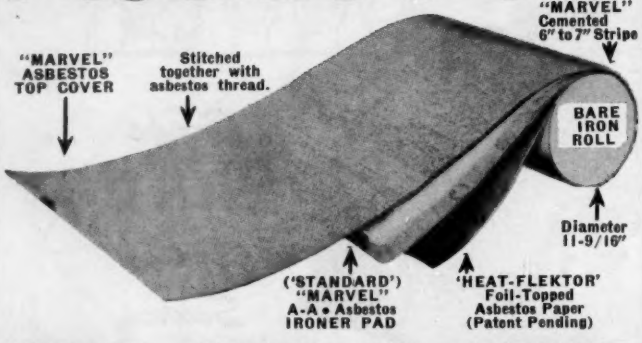


figure #2

feeding the gowns into the ironer, Girl A holds the gown at point 1 with her left hand and point 2 with her right. Girl B places her right hand at point 3 and her left at point 4 (figure 2). Both girls bring point 1 and 4 to the center of the

ASBESTOS


"MARVEL" Cemented 6" to 7" Stripe
"MARVEL" ASBESTOS TOP COVER
Stitched together with asbestos thread.
BARE IRON ROLL
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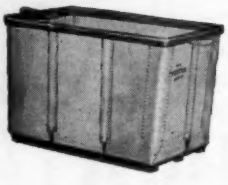

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CANVAS BASKETS
CANVAS BAGS
CANVAS TRUCKS
CANVAS HAMPERS

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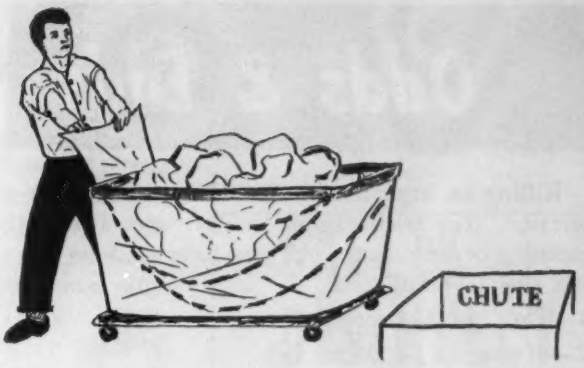
gown, keeping the gown firm. As it goes into the ironer, the sleeves are straightened.—*Gilbert O. Martin, LM, The Presbyterian Hospital Association of Colorado, Denver, Colorado.*

Washing Woolens Without Shrinking

The first thing we do when we have a load of woolen blankets to wash is to shut off the hot water valve. This is done so that we cannot make a mistake and run hot water on them. We use the cold water as it comes through the line. The washwheel is filled to ten inches. We add a very low titer soap and only give one rinse extract before the blankets are removed and hung on racks to dry. On the following day, we run them in the tumbler until they are really hot, thereby killing all germs. Using this method we have washed almost 2,000 woolen blankets and have not shrunk one.—*George U. Potter, LM, Sixth District Tuberculosis Hospital, Mobile, Alabama.*

We Use Pull To Unload Hampers

We use large hampers on wheels in our laundry for almost all transportation of dry clothing. We have discovered a very simple way to unload these hampers. We secure one end of a strip of canvas to the top of one end of the hamper. The



strip is allowed to fall into the hamper and reaches up and over the other end. The load is put in on top of the canvas. A good pull on the free end of the canvas pulls all the clothing up and out for quick dumping.—*Lyle Camley, LM, Norwich State Hospital, Norwich, Conn.* □

You, as well as others can profit from your ideas. Payment is $5 for gimmicks, $5 for accompanying suitable illustrations. Write to: "Genius At Work," INSTITUTIONAL LAUNDRY, 10 East 40 Street, New York 16, New York

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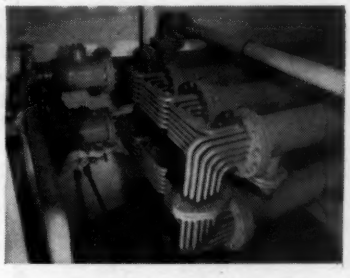

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. . . but you must use *both*

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Odds & Ends

Killing an organization, for those who are interested, is a fairly simple matter, says a Texas cleaning organization. All you have to do is follow this 10-point plan:

1—Don't go to meetings.

2—If you do go, arrive late.

3—If the weather doesn't suit you, don't even think of going.

4—If you do attend a meeting, find fault with the work of the officers and members.

5—Never accept office, because it is easier to criticize officers than do things.

6—Get sore if you are not appointed to a committee; but if you are, do not attend committee meetings.

7—Tell the president you have nothing to say if the president asks for your opinion.

8—Tell everyone within earshot how things should have been done at the meeting.

9—Do nothing more than absolutely necessary; but when the members use their ability to help matters along, howl out that the group is run by a clique.

10—Hold back your dues or don't pay at all.

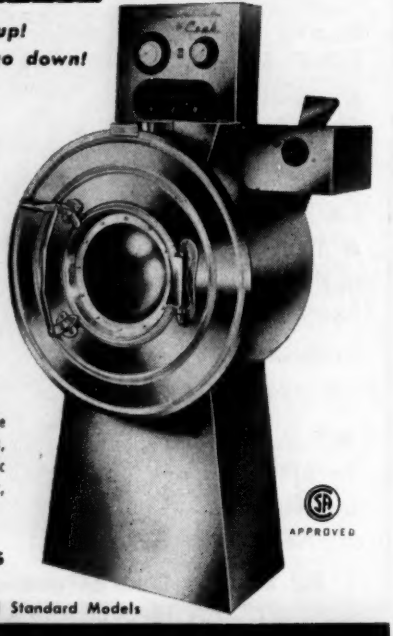
According to members of the Laundry and Cleaners Allied Trades Association who visited the big British exposition in London last summer, the U.S. continues to lead in the development of labor-saving, quality-producing equipment. One reason for this is the impressive sums American manufacturers spend on research. All of which means that American LMs enjoy easy-to-use equipment that turns out a first rate job.

In the dry bleach article at the front of this issue, it's shown that mixing calcium hypochlorite and ash or soda in water produces sodium hypochlorite liquid bleach plus an insoluble precipitate of calcium carbonate. For those of you who plan to use liquid bleach a little while longer, here's how to overcome the precipitate problems.

Siphon off the clear liquid into another tank. This second tank must be stirred at least twice a day in order to keep the chlorine in proper dispersion. Chlorine, as you know, is heavier than water. It will sink to the bottom of the tank if not stirred. □

Washette by Cook
AMERICA'S LEADING OPEN-END WASHER

THE WISE ONES OWN . . .
Washette
Profits go up!
Costs go down!



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WASHETTE—completely flexible, handles all washing jobs, large or small!

WASHETTE—higher production, turns out more work faster, more uniformly clean.

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Only WASHETTE offers complete line pedestal and cabinet models, sizes 25, 50, 75, 100 lb. Automatic with supply injector, semi-automatic, manual, and automatic.

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Consisting of a steel wool core, covered with a one-piece knitted mesh covering provides smooth, unrivalled pressing—assures long-lasting economical wear.

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Layers of rust-resistant metal mesh with 2-ply asbestos cover, TOPCRAFT eliminates the endless, troublesome changing of flannel. It's the answer to the launderer's topper needs!

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Com-Pat, The Bleach That Has Changed The Laundry Bleaching Habit!

Com-Pat is the original safe powdered bleach. Contains no lime, calcium or chlorites. So easy to use—direct to wheel. Com-Pat is superior for short formula bleaching in shirt laundries. You get complete rapid solubility—and full effective bleaching action. Assures less damage to bleach retentive fabrics. Write for copy of Free brochure.

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243 Clinton Avenue Kingston, New York

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Dual Plant For Two Customers

continued from page 40

In the press area, overhead air vents provide individually controlled air for each operator.

Overhead blanket storage in the linen distribution area leaves a maximum of clear floor space.

Linen is controlled by the Ward Complement system. Each ward's complement is adjusted weekly. The Daily Ward Requisition system was tried, but with 46 wards and from 30 to 115 patients in each, it was found to be impractical and was decentralized.

Many problems have been solved in the design and operation of the Pacific State Hospital laundry. One that remains, however, is that of staffing the plant.

Assistant superintendent Hayes points out that while California has a greater number of mentally handicapped persons than any other state in the nation, California also has such an effective rehabilitation program that the average stay of a patient in Pacific State is now only four years.

This means that a growing proportion of the patient population is made up of the more severely handicapped, patients whose ability to work is severely limited. As a result, the number of paid employees has risen from 15 to 42 in the past few years. An effort is being made to have the laundry completely staffed by paid employees. □

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SAFELY DISINFECT LINENS AND BLANKETS

San Pheno® X will not stain or discolor!

Tests prove San Pheno X all-purpose germicide creates an effective bacteriostatic activity against a wide variety of microorganisms, including Resistant Staph when used on linens and blankets.

Easy to use. Add San Pheno X to final rinse before laundry sour. Will not stain, discolor or leave an odor.

Write for complete test results. Ask for Huntington's Research Bulletin, "San Pheno X in the Laundry."

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EVERYTHING GOES FASTER NOW THAT I'M USING LUMAR

The original fabric softener in powder form

Lumar not only softens all kinds of fabrics—often making them softer and fluffier than when new—but speeds up my production all along the line. I find this fabric softener in powder form is saving me time on extracting, drying, folding, finishing.

P.S. I'm also using MARLYNBRITE to whiten whites and brighten colors. Certainly does the trick.

The above experience is typical. There's no reason why you shouldn't share it. Lumar is inexpensive—you use only 1½ oz. per hundred weight of dry clothes. Get in touch with your laundry supply house—they're real Lumar boosters.

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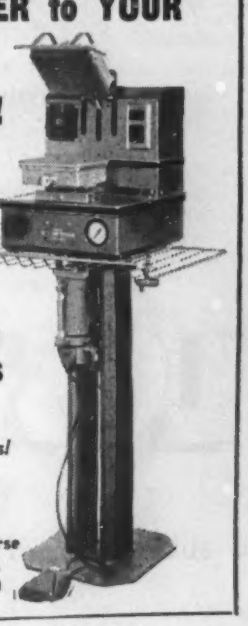
The ANSWER to YOUR MENDING PROBLEMS!

. . . in use by institutions the country over!



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You see, LESTOIL Liquid Detergent for Laundering was made for the really tough cleaning jobs, like oil, grease, wax, spilled foods, perspiration soil. That's why it is so effective for the special problems of institutional laundries — such as greasy salves, oily medicines and other hard-to-remove soil. LESTOIL dissolves and disperses them completely.

LESTOIL speeds up the action of soap and alkali . . . reduces washovers . . . can shorten formulas. LESTOIL *super*-cleans — yet with minimum frictional action . . . so institutional laundries everywhere find that LESTOIL-washed fabrics last and *last!*

LESTOIL

1. Penetrates the entire load instantly . . . means shorter washing and rinsing cycles . . . fewer washovers.
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6. Harmless even when used full strength. Safe for nylons, rayons, synthetic fabrics.

Why don't YOU try LESTOIL Liquid Detergent — made especially for laundries. For a generous FREE sample, call your supplier or write direct to —

LESTOIL, INC.

a subsidiary of Adell Chemical Co. **HOLYOKE, MASS.**

LESTOIL GIVES YOU A BETTER BREAK

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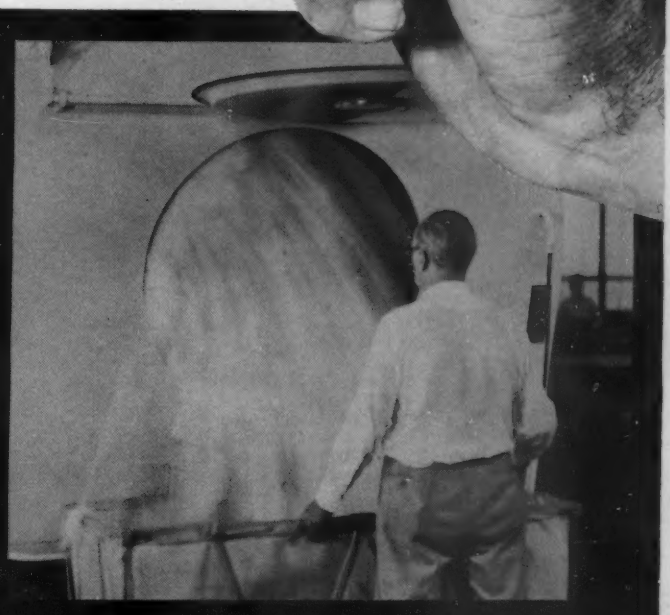
see the *Drynamic* difference

Simply slide in a cake or fill the basket from a Challenge Conveyor Loader in 5-seconds, set the timer and press the "start" button. From then on everything is automatic.



At the buzzer signal, press a button; the door swings up, the basket tilts forward and, by push-button control, rotates and reverses to unload in 12-seconds!

...in Work-force Efficiency!

RATED 200 lb.—HANDLES 200 lb.
(others less than 160 lb.)
FULL DRIES 800 lb. PER HOUR
CONDITIONS 2400 lb. PER HOUR
6-ROLL IRONERS DO AN
8-ROLL JOB
8-ROLL IRONERS RUN
110 ft. PER MINUTE
FULLY AUTOMATIC—
PUSH-BUTTON CONTROL

that's the *Drynamic* difference!

From wash-wheel to storage bin, all departments get more work done when there's a modern tumbler in the plant. FOR FAST IRONING: Moisture content is lowered to get top speed on the ironer rolls. Linens are opened up and mellowed to feed fast. FOR IMMEDIATE PUT-AWAY: Goods are fluff-dried wrinkle-free 3-times faster than old-fashioned tumblers. AS YOU NEED IT: Vary the loads—only 5-minutes to condition, full-dry in 15-minutes—to keep all departments at peak efficiency.

Now is the time to learn the difference DRYNAMIC speed and versatility can make in your operation. Write for details or, better yet, ask THE AMERICAN LAUNDRY MACHINERY COMPANY for their Survey Engineering Service—furnished without cost or obligation—to get a complete analysis.

CHALLENGE *Drynamic* TUMBLERS

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